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Volume V
Part 6
Section 6 of 6

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INTEGRATED INFORMATION SUPPORT SYSTEM (IISS)
Volume V - Common Data Model Subsystem
Part 6 - Neutral Data Definition Language (NDDL) Product
Specification
Section 6 of 6

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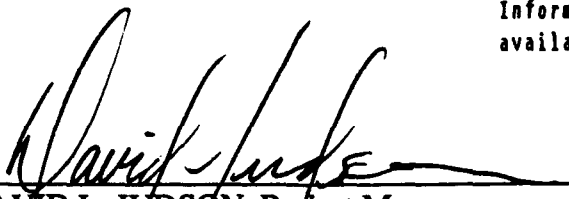
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13. ABSTRACT This specification establishes the development, test and qualification requirements of a computer program identified as the "Neutral Data Definition Language Processor" (NDDL Processor). This report is divided into six (6) sections.				
14. SUBJECT TERMS			15. NUMBER OF PAGES 1881	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT SAR	18. SECURITY CLASS OF THIS PAGE SAR	19. SECURITY CLASS OF ABSTRACT SAR	20. LIMITATION ABSTRACT SAR	

MODEL NO
OBJ_NO

INT *
INT *

INCLUDE FILES:

CSTD TYP
LISTID

ROUTINES CALLED:

TOUPPER
CPFNXT
VERDI
VERUDTN
VERDFLD
STRNCMP
VERATT
VERENT
VERHST
VERKW
VERVIEW
VERDOM
VERMOD
VERDB
SPRINTF
UERROR
VERLR
VERCR
VERRT
VERRSET



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Justification	
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Distribution /	
Availability Codes	
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A-1	

DOCGROUP PS41100 Module Documentation

NAME: VEROBJ1
PURPOSE: VERIFY THAT THE OBJECT EXISTS.
LANGUAGE: C
SOURCE FILE: VEROBJ1
SOURCE FILE TYPE: C
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

SYNOPSIS

```
      C          --  VEROBJ1 (OBJ_TYPE, &MODEL_NO, &OBJ_NO,
OBJ_NAMEA,
      COBOL      --  OBJ_NAMEB, OBJ_NAMEC)
                  USING
                  OBJ-TYPE
                  MODEL-NO
                  OBJ-NO
                  OBJ-NAMEA
                  OBJ-NAMEB
                  OBJ-NAMEC

      FORTRAN    --  CALL VEROBJ
(OBJTYPE,MODELNO,OBJNO,OBJNAMEA,OBJNAMEB,
                  OBJNAMEC)
```

INPUT:

```
CHAR*OBJ_TYPE[]
INT *MODEL_NO
```

OUTPUT:

```
INT *OBJ_NO
CHAR*OBJ_NAMEA[]
CHAR*OBJ_NAMEB[]
CHAR*OBJ_NAMEC[]
```

DESCRIPTION

VEROBJ1'S FUNCTION IS TO VERIFY THAT THE OBJECT TYPE
ENTERED IN THE

DESCRIBE COMMAND IS VALID. IF THE OBJECT TYPE IS NOT
VALID,
OBJ_NO WILL CONTAIN ZERO. IF THE OBJECT TYPE IS VALID,
OBJ_NO WILL
CONTAIN THE OBJECT NUMBER OF THE OBJECT IN QUESTION.
VEROBJ1 WILL
ALSO RETURN THE OBJECT NAMES FOR THE OBJECT BEING VERIFIED.

ARGUMENTS:

OBJ_TYPE	CHAR []
MODEL_NO	INT *
OBJ_NO	INT *
OBJ_NAMEA	CHAR []
OBJ_NAMEB	CHAR []
OBJ_NAMEC	CHAR []

INCLUDE FILES:

CSTDYTP
LISTID

ROUTINES CALLED:

TOUPPER
STRNCPY
VERRT
VERRSET
CPFNXT
VERDI
VERUDTN
VERDFLD
STRNCMP
VERATT
VERENT
VERHST
VERKW
VERVIEW
VERDOM
VERMOD

PS 620341100
30 September 1990

VERDB
SPRINTF
UERROR
VERLR
VERCR

DOCGROUP PS41100 Module Documentation

NAME: VROBJ
PURPOSE: VERIFY THAT THE OBJECT EXISTS.
LANGUAGE: C
SOURCE FILE: VROBJ
SOURCE FILE TYPE: C
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

SYNOPSIS

```

C          -- VROBJ (OBJ_TYPE, &MODEL_NO, &OBJ_NO)
COBOL      -- CALL "VROBJ"          USING
                                         OBJ-TYPE
                                         MODEL-NO
                                         OBJ-NO.
FORTRAN    -- CALL VROBJ (OBJTYPE,MODELNO,OBJNO)
INPUT:
CHAR*OBJ_TYPE[]
INT *MODEL_NO
OUTPUT:
INT *OBJ_NO
DESCRIPTION
VROBJ'S FUNCTION IS TO VERIFY THAT THE OBJECT TYPE ENTERED
IN THE DESCRIBE COMMAND IS VALID. IF THE OBJECT TYPE IS NOT VALID,
OBJ NO WILL CONTAIN ZERO. IF THE OBJECT TYPE IS VALID,
OBJ_NO WILL CONTAIN THE OBJECT NUMBER OF THE OBJECT IN QUESTION.

```

ARGUMENTS:

OBJ TYPE	CHAR []
----------	----------

MODEL_NO
OBJ_NO

INT *
INT *

INCLUDE FILES:

CSTDTP
LISTID

ROUTINES CALLED:

TOUPPER
CPFNXT
VERDI
VERUDTN
VERDFLD
STRNCMP
VERATT
VERENT
VERHST
VERKW
VERVIEW
VERDOM
VERMOD
VERDB
SPRINTF
UERROR
VERLR
VERCR
VERRT
VERRSET

DOCGROUP PS41100 Module Documentation

NAME: VROBJ1
PURPOSE: VERIFY THAT THE OBJECT EXISTS.
LANGUAGE: C
SOURCE FILE: VROBJ1
SOURCE FILE TYPE: C
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

SYNOPSIS

```
      C          --  VROBJ1 (OBJ_TYPE, &MODEL_NO, &OBJ_NO,  
OBJ_NAMEA,      OBJ_NAMEB, OBJ_NAMEC)  
      COBOL      --  CALL "VROBJ1"      USING  
                                          OBJ-TYPE  
                                          MODEL-NO  
                                          OBJ-NO  
                                          OBJ-NAMEA  
                                          OBJ-NAMEB  
                                          OBJ-NAMEC
```

```
      FORTRAN    --  CALL VROBJ1  
(OBJTYPE,MODELNO,OBJNO,OBJNAMEA,OBJNAMEB,  
                                OBJNAMEC)
```

INPUT:

```
      CHAR*OBJ_TYPE[]  
      INT *MODEL_NO
```

OUTPUT:

```
      INT *OBJ_NO  
      CHAR*OBJ_NAMEA[]  
      CHAR*OBJ_NAMEB[]  
      CHAR*OBJ_NAMEC[]
```

DESCRIPTION

VROBJ1'S FUNCTION IS TO VERIFY THAT THE OBJECT TYPE
ENTERED IN THE

DESCRIBE COMMAND IS VALID. IF THE OBJECT TYPE IS NOT
VALID,
OBJ_NO WILL CONTAIN ZERO. IF THE OBJECT TYPE IS VALID,
OBJ_NO WILL
CONTAIN THE OBJECT NUMBER OF THE OBJECT IN QUESTION.
VROBJ1 WILL
ALSO RETURN THE OBJECT NAMES FOR THE OBJECT BEING VERIFIED.

ARGUMENTS.

OBJ_TYPE	CHAR []
MODEL_NO	INT *
OBJ_NO	INT *
OBJ_NAMEA	CHAR []
OBJ_NAMEB	CHAR []
OBJ_NAMEC	CHAR []

INCLUDE FILES:

CSTDTP
LISTID

ROUTINES CALLED:

TOUPPER
STRNCPY
VERRT
VERRSET
CPFNXT
VERDI
VERUDTN
VERDFLD
STRNCMP
VERATT
VERENT
VERHST
VERKW
VERVIEW
VERDOM
VERMOD
VERDB
SPRINTF
UERROR
VERLR
VERCR

DOCGROUP PS41100 Module Documentation

NAME: VTAGAUC
PURPOSE:
LANGUAGE: C
SOURCE FILE: VTAGAUC
SOURCE FILE TYPE: PC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

ARGUMENTS:

EC PTR	INT *
TAGNM PTR	CHAR *
TAG PTR	INT *
AC PTR	INT *
STATUS	INT *

ROUTINES CALLED:

STRNCPY
SQLSCA
SQLBS2
SQLSCH
SQLSCC
SQLTFL
SQLOPN
SQLOSQ
SQLAB2
SQLEXE
SQLAD2
SQLFCH
ERRRPT

DOCGROUP PS41100 Module Documentation

NAME: WRTDESC
PURPOSE: SELECT A RECORD FROM DESC_TEXT ENITY
LANGUAGE: C
SOURCE FILE: WRTDESC
SOURCE FILE TYPE: PC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

SYNOPSIS

```
      C      --      WRTDESC(&OBJ_TYPE_PTR, &OBJ1_PTR,
&OBJ2_PTR,
                                &STATUS)

      COBOL   --      CALL "WRTDESC" USING
                                OBJECT-TYPE,
                                OBJECT-NO-1,
                                OBJECT-NO-2,
                                STATUS.

      FORTRAN --      CALL WRTDESC(OBJECT_TYPE, OBJ_NO_1,
OBJ_NO_2,
                                STATUS)
```

INPUT:

```
      CHAR *OBJ_TYPE_PTR ;
      INT  *OBJ1_PTR ;
      INT  *OBJ2_PTR ;
```

OUTPUT:

```
      INT *STATUS ;
```

DESCRIPTION:

THIS ROUTINE USES ORACLE CALLS TO COPY DESCRIPTION TEXT
OF OBJ_NO_1

TO DESCRIPTION TEXT OF OBJ_NO_2. IF SUCCESSFUL, THEN THE
STATUS AND

RETURN VALUE BOTH WILL BE 0 , OTHERWISE -1.
REWRITTEN TO PRO*C DUE TO PROBLEM WITH SQL*FORMS AND HLI
INTERFACE

ARGUMENTS:

OBJ_TYPE_PTR
OBJ1_PTR
OBJ2_PTR
STATUS

CHAR *
INT *
INT *
INT *

ROUTINES CALLED:

STRNCPY
SQLSCA
SQLBS2
SQLSCH
SQLSCC
SQLTFL
SQLOPN
SQLOSQ
SQLAB2
SQLEXE
ERRRPT

DOCGROUP PS41100 Module Documentation

NAME: WRTLIN
PURPOSE: THIS ROUTINE WRITES A NDDL COMMAND LINE (79
CHARACTERS)
LANGUAGE: C
SOURCE FILE: WRTLIN
SOURCE FILE TYPE: C
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

TO THE USER-SPECIFIED FILE OR TO THE SCREEN

SYNOPSIS

C -- WRTLIN(&LINE) ;
COBOL -- CALL "WRTLIN" USING
LINE.
FORTRAN -- CALL WRTLIN(LINE)

INPUT:

CHAR *COMMAND_LINE ;

OUTPUT:

DESCRIPTION:

FILE OPN APP FLAG MAY HAVE 3 VALUES

0 : OUTPUT GENERATED COMMANDS TO THE SCREEN

1/2 : OUTPUT GENERATED COMMANDS TO A USER DEFINED FILE

ARGUMENTS:

LINE

CHAR *

INCLUDE FILES:

STDIO
NDDLEX

ROUTINES CALLED:

PUTC
STRNCPY
PMSGLS

3.10.5 Include File Descriptions

The following list contains a purpose and description of each include file in the documentation group as specified in the source code. The language it is written in is also given.

DOCGROUP PS41100 Include File Description

FILE NAME: ADDPARM
PURPOSE: DEFINES COMMON PARAMETERS USED TO BUILD NDDL
COMMAND LINE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

FROM CALLS TO SUBPROGRAM ADDPARM.

DOCGROUP PS41100 Include File Description

FILE NAME: ADDTGLS
PURPOSE: THIS LIST IS USED TO HOLD THE TAG INFORMATION FOR
ADDITIONS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

TO AN ENTITY DEFINED IN THE NDDL COMMAND ALTERENTITY

THE VALUE OF ATL-MAX MUST EQUAL DTL-MAX IN THE
DROP-TAG-LIST.

DOCGROUP PS41100 Include File Description

FILE NAME: ALGTBL
PURPOSE: TABLE TO HOLD ALGORITHM VARIABLES
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DESCRIPTION:

STRUCTURE CONTAINS INPUT AND OUTPUT PARAMETERS
FOR A COMPLEX MAPPING ALGORITHM

DOCGROUP PS41100 Include File Description

FILE NAME: ATTRIBUTE
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: ATTRNOS
PURPOSE: THE PARSE.
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: AUPTBL
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: BOOLST
PURPOSE: BOOLEAN LIST
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

CONTAINS THE BOOLEAN OPERATORS, PARENTHESES, AND
POINTERS TO THE TYPE 2 CONDITIONS FOR AN NDML
TRANSACTION

DOCGROUP PS41100 Include File Description

FILE NAME: CANNOT
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: CHKCDM
PURPOSE: IISS CDMP CHECK STATUS CODES
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

CONTAINS ALL STATUS CODES FOR THE
CDMP MODULES

*
*

DOCGROUP PS41100 Include File Description

FILE NAME: CHKMODL
PURPOSE: DETERMINE IF CURRENT MODEL EXISTS FOR A SESSION
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DETERMINE IF THE GLOBAL VARIABLE MODEL-NO HAS A CURRENT MODEL NUMBER. THIS WILL BE SET BY THE CREATE MODEL OR THE ALTER MODEL COMMAND PROCESSOR. IF MODEL-NO CONTAINS A ZERO, THEN A CURRENT MODEL HAS NOT BEEN ESTABLISHED FOR THE SESSION AND NO NDDL COMMANDS THAT REQUIRE A MODEL NUMBER MAY BE PROCESSED.

DOCGROUP PS41100 Include File Description

FILE NAME: CSQCLST
PURPOSE: CONCEPTUAL SCHEMA QUALIFY CRITERIA LIST
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

CONTAINS CONCEPTUAL SCHEMA INFORMATION FOR EACH ATTRIBUTE IN THE WHERE CLAUSE.

DOCGROUP PS41100 Include File Description

FILE NAME: DBTBL
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: DEPECL
PURPOSE: TABLE TO HOLD EXCEPTED ENTITY CLASS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

NUMBERS -- FOR NDDL MODELING COMMANDS *

DOCGROUP PS41100 Include File Description

FILE NAME: DFTBL
PURPOSE: TABLE TO HOLD RECORD DEFINITION VARIABLES
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DESCRIPTION :

TABLE TO HOLD INFORMATION NEEDED TO DEFINE A RECORD

DOCGROUP PS41100 Include File Description

FILE NAME: DRPTGLS
PURPOSE: THIS LIST IS USED TO HOLD THE TAG INFORMATION USED
TO
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DROP A TAG FROM AN ENTITY SPECIFIED IN THE NDDL COMMAND *
ALTER ENTITY *
THE VALUE OF DTL-MAX MUST EQUAL ATL-MAX OF THE *
ADD-TAG-LIST TABLE *

DOCGROUP PS41100 Include File Description

FILE NAME: ECLIST
PURPOSE: CONTAINS A LIST OF ENTITY CLASS NUMBERS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

THIS LIST IS USED WHEN PROCESSING NDDL
MODELING COMMANDS

DOCGROUP PS41100 Include File Description

FILE NAME: ECRTBL
PURPOSE: COPY MEMBER ECRTBL
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: ECTBL
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: EOD
PURPOSE: SQL END OF DATA DEFINITION
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: ERRCDM
PURPOSE: IISS ERROR STATUS CODES FOR CDMP MODULES
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

CONTAINS ALL ERROR CODES USED BY CDMP *
MODULES FOR ERROR HANDLING *

DOCGROUP PS41100 Include File Description

FILE NAME: ERRFS
PURPOSE: ERRFS.INC - FILE I/O PRIMITIVES (FILE SERVICES)
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

IISS ERROR CODES

THIS FILE DEFINES THE FS STATUS
CODES IN COBOL FORMAT

DOCGROUP PS41100 Include File Description

FILE NAME: ERRPRO
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: FLDELST
PURPOSE: PROVIDE A TEMPORARY LIST OF FILES OF CODE TO BE
DELETED
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

THE NAMES OF FILES AND MODULES OF OBSOLETE
GENERATED CODE ARE STORED IN THIS TABLE DURING
THE PRECOMPILATION OF A SINGLE USER MODULE.
THEY MUST BE STORED UNTIL PRECOMPILATION IS
COMPLETE AND SUCCESSFUL AND THEN THE NAMES
ARE USED TO DELETE THE FILES.

DOCGROUP PS41100 Include File Description

FILE NAME: FPCODE
PURPOSE: FORM PROCESSOR RETURN CODES
LANGUAGE: C

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: FPPARM
PURPOSE: FORM PROCESSOR PARAMETERS
LANGUAGE: C

DESCRIPTION:

DESCRIPTION: THESE DATA DEFINITIONS ARE USED
IN THE FORM PROCESSOR ROUTINES.

DOCGROUP PS41100 Include File Description

FILE NAME: HOST
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: KCNAMET
PURPOSE: KEY-PROCESSED-TBL
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

LIST OF KEY CLASSES PROCESSED FOR AN ENTITY

DOCGROUP PS41100 Include File Description

FILE NAME: KEYLIST
PURPOSE: DATA STRUCTURE FOR NDDL MODELLING COMMANDS
LANGUAGE: C

DESCRIPTION:

DESCRIPTION

DATA STRUCTURE THAT HOLDS ENTITES ITS KEY CLASSES AND
KEY CLASS MEMBERS. THIS STRUCTURE IS USED FOR THE
NDDL MODELLING COMMANDS.

DOCGROUP PS41100 Include File Description

FILE NAME: KWDTBL
PURPOSE: KEYWORD TABLE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

LIST OF KEYWORDS, OBJECT NUMBER, KEYWORD NUMBER
BELONGING IN THE MODEL

DOCGROUP PS41100 Include File Description

FILE NAME: LISTID
PURPOSE: PROVIDES LIST OF PARSED OBJECTS
LANGUAGE: C

DESCRIPTION:

DESCRIPTION

DOCGROUP PS41100 Include File Description

FILE NAME: LISTNOS
PURPOSE: NDDL AND NDML LIST NUMBERS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

CONTAINS THE VALID SET LIST NUMBERS USED BY
NDDL AND NDML FOR STORING AND RETRIEVING TOKENS
FROM PARSED COMMANDS.

LISTS USED ONLY BY NDDL

DOCGROUP PS41100 Include File Description

FILE NAME: LISTREL
PURPOSE: LIST OF RELATIONS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

TABLE HOLDS RELATIONS CLASS NUMBERS AND NAMES

DOCGROUP PS41100 Include File Description

FILE NAME: LISTS
PURPOSE: PROVIDES THE DIMENSIONS OF THE NDDL LISTS
LANGUAGE: C

DESCRIPTION:

DESCRIPTION

DOCGROUP PS41100 Include File Description

FILE NAME: MACDAT
PURPOSE: WS VARIABLES FOR MACRO COPY UTILITY
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: MDTBL
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: MODULE
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: NDDLEXY
PURPOSE:
LANGUAGE: C

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: NEWTAGT
PURPOSE: NEW TAG MIGRATION TABLE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

INFO OF ALL KEY MIGRATION OF THE AUC IN THE NEW
OWNER ENTRY.

DOCGROUP PS41100 Include File Description

FILE NAME: OK
PURPOSE: GOOD RETURN CODE VALUE FOR UI
LANGUAGE: C

DESCRIPTION:

DESCRIPTION
CONTAINS THE VALUE FOR A GOOD RETURN CODE
FROM THE USER INTERFACE

DOCGROUP PS41100 Include File Description

FILE NAME: OLDTAGT
PURPOSE: OLD TAG MIGRATION TABLE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

INFO OF ALL KEY MIGRATION OF THE AUC IN THE OLD
OWNER ENTRY.

DOCGROUP PS41100 Include File Description

FILE NAME: RCDEPKC
PURPOSE: LIST OF KEYS MIGRATED VIA A RELATION
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

The RC-DEPKC-LIST is used by the NDDL modeling
commands to identify which key classes can be added
at which levels in the model.
Modified 7/25/89: to handle category relations as
well as link by adding rc-type and multiple dep-ecs.

DOCGROUP PS41100 Include File Description

FILE NAME: RELTBL
PURPOSE: LIST OF RELATION CLASSES IN A MODEL
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

HOLD RELATION CLASS NUMBERS BELONGING TO A MODEL

DOCGROUP PS41100 Include File Description

FILE NAME: RENLIST
PURPOSE: LIST OF ATTRIBUTES AND INHERITED TAG PAIRS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

REN-LIST CONTAINS THE LIST OF RENAME PAIRS
SPECIFIED BY THE USER ON THE "SET RENAME-LIST"
CLAUSE.

DOCGROUP PS41100 Include File Description

FILE NAME: SBSTLST
PURPOSE: WS DEFINITION FOR THE SUBSTITUTION LIST TABLE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

SUBSTITUTION-LIST REPRESENTS THE INPUT TABLE
OF SUBSTITUTION PARAMETERS FOR THE CDMACR
MACRO EXPANSION SUBROUTINE

DOCGROUP PS41100 Include File Description

FILE NAME: SDLIST
PURPOSE: SEC-DECOMPOSITION-LIST
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

RELATIONS THIS LIST REPRESENTS ALL ENTITY CLASSES AND
 MAKING UP EITHER THE SURROGATE ENTITY CLASS
 OR THE COMBINATION OF SEC'S RESULTING FROM JOINS
 IN THE NDML SELECT STATEMENT.
 THIS TABLE IS USED AS INPUT TO ROUTINE CDP4A
 WHICH CAN VERIFY THE LEGALITY OF A SEC STRUCTURE

DOCGROUP PS41100 Include File Description

FILE NAME: SRVRET
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: TAGTBL
PURPOSE: TABLE TO HOLD TAGS SPECIFIED IN AN ALGORITHM
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DESCRIPTION:

THIS STRUCTURE CONTAINS THE "BROTHER" TAGS
SPECIFIED IN A COMPLEX MAPPING ALGORITHM
(BETWEEN CS AND IS)

DOCGROUP PS41100 Include File Description

FILE NAME: TDFTBL
PURPOSE: TABLE TO HOLD TEMPORARY RECORD DEFINITION VARIABLES
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: THRU
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: UNIQENO
PURPOSE: UNIQUE NUMBER ASSIGNMENTS FOR CDM OBJECTS
LANGUAGE: C

DESCRIPTION:

DESCRIPTION

DOCGROUP PS41100 Include File Description

FILE NAME: UNTBL
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: UPDTGLS
PURPOSE: THIS IS A TABLE USED FOR UPDATING THE INHERITED
ATTRIBUTED
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

USE ENTITY FOR THE NDDL COMMAND ALTER ENTITY

DOCGROUP PS41100 Include File Description

FILE NAME: VIEW
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: VWDI
PURPOSE: LIST OF DATA ITEMS IN A VIEW
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

USED BY CREATE VIEW..

DOCGROUP PS41100 Include File Description

FILE NAME: VWFROM
PURPOSE: LIST OF ENTITIES SPECIFIED IN A VIEW
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

IN THE 'FROM' CLAUSE

DOCGROUP PS41100 Include File Description

FILE NAME: VWRETR
PURPOSE: LIST OF ENTITIES AND TAGS SPECIFIED IN A VIEW
LANGUAGE: VAX-11 COBOL

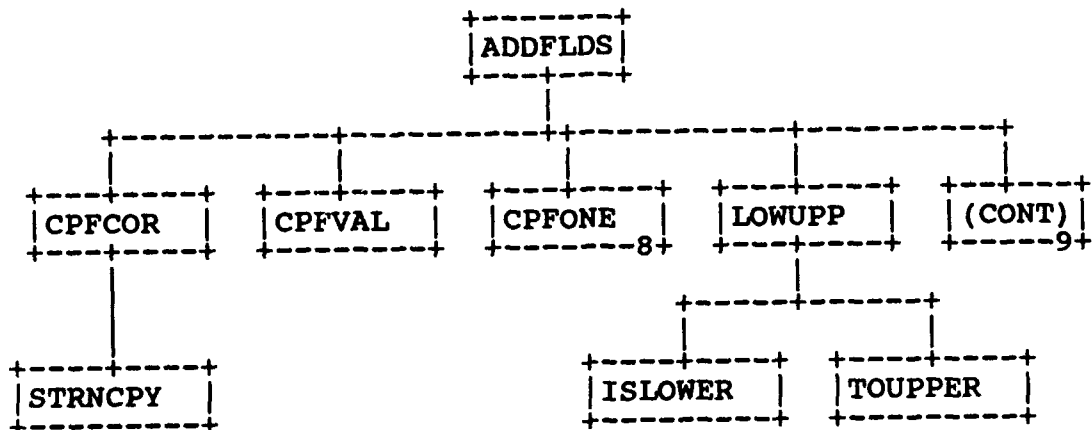
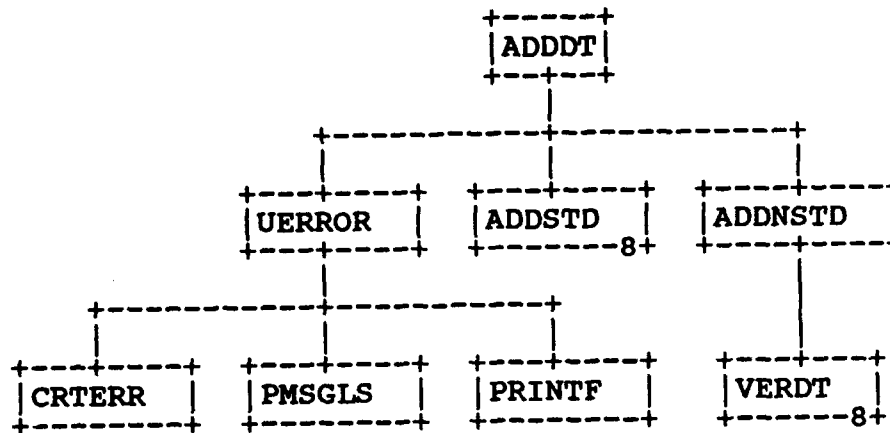
DESCRIPTION:

IN THE SELECT CLAUSE

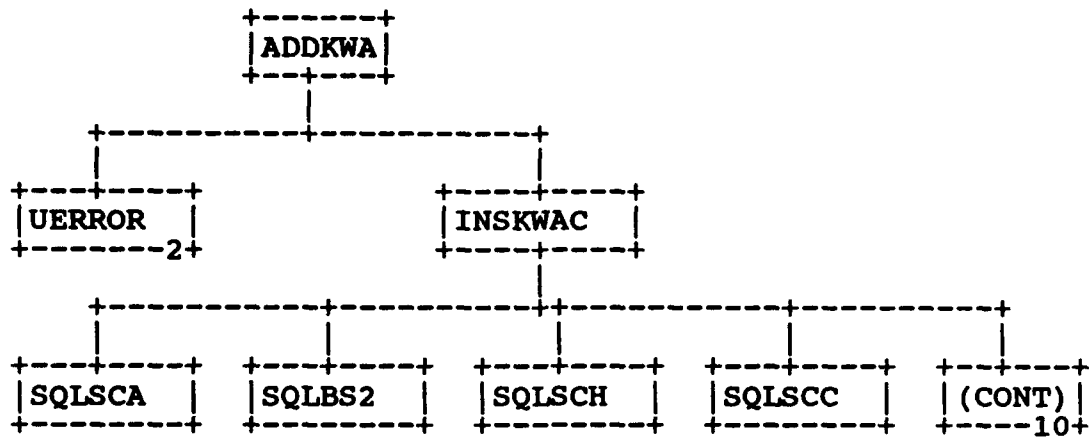
3.10.6 Hierarchy Chart

1

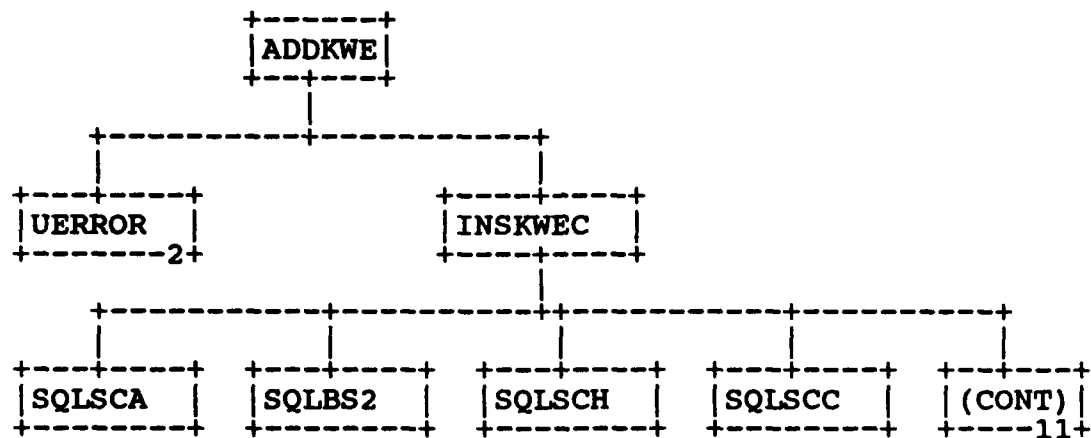
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-2-	-3-	-4-	-5-	-6-	-7-



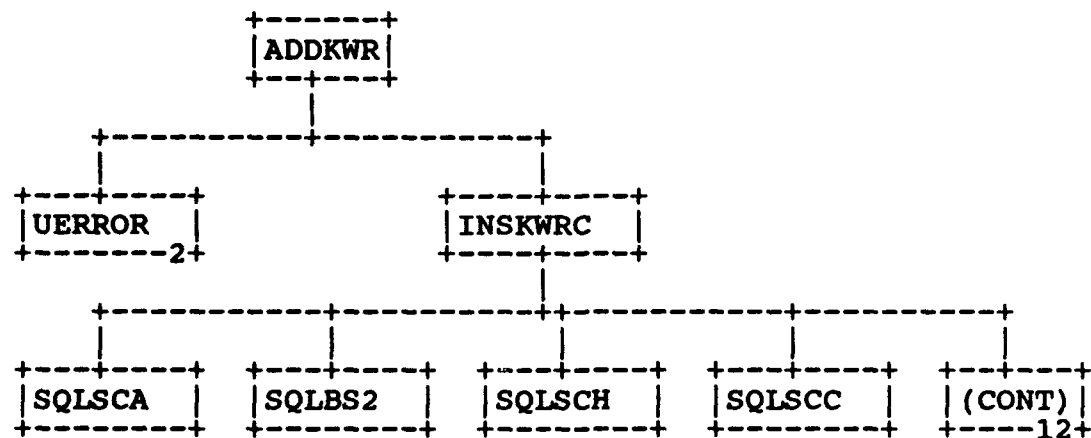
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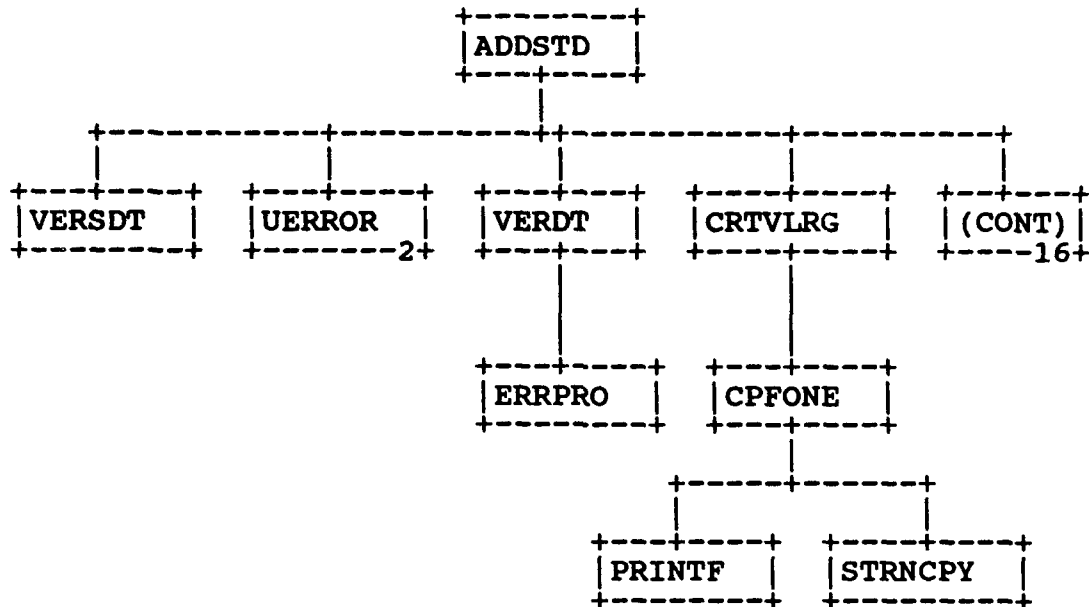
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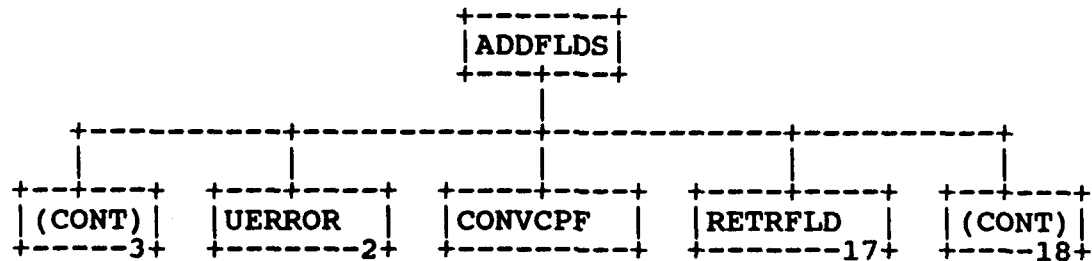
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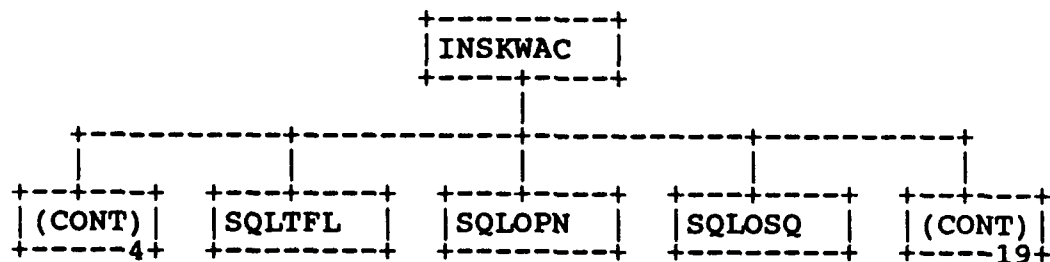
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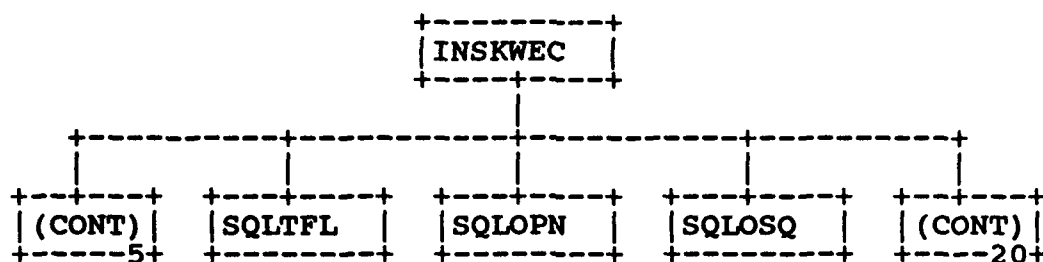
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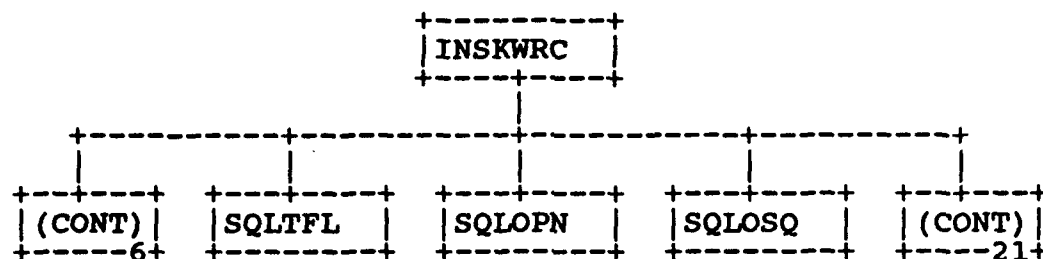
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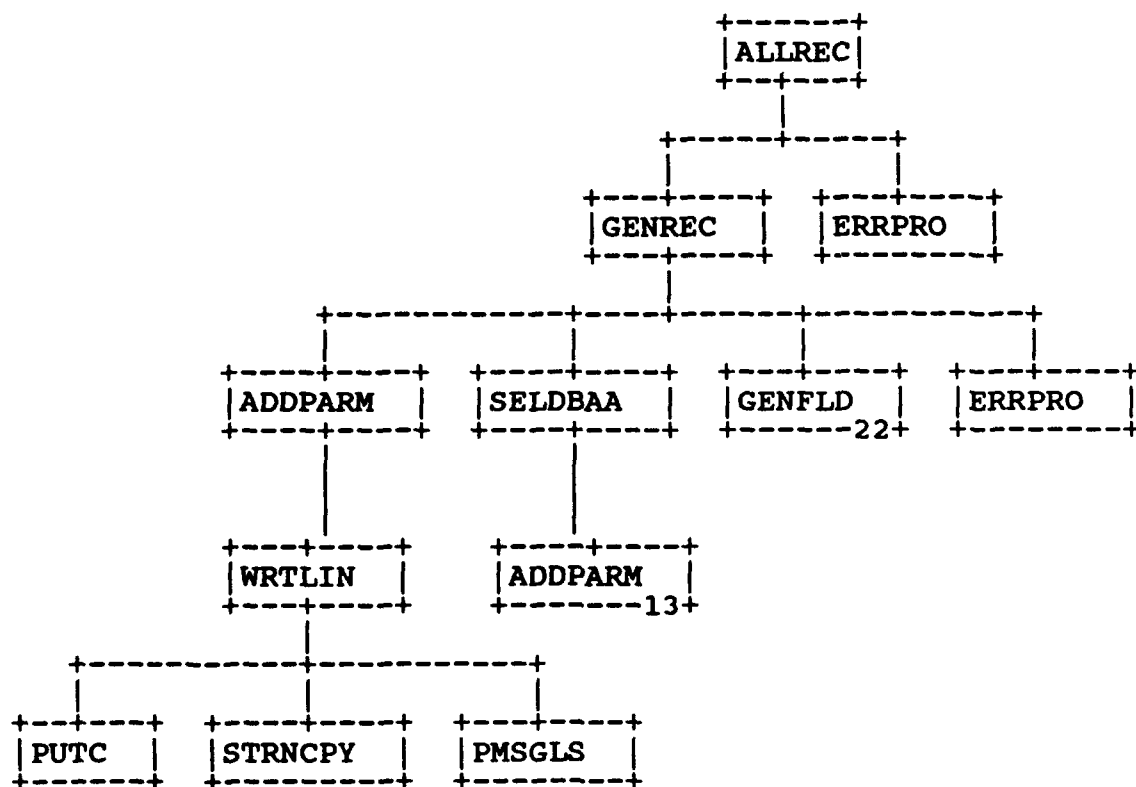
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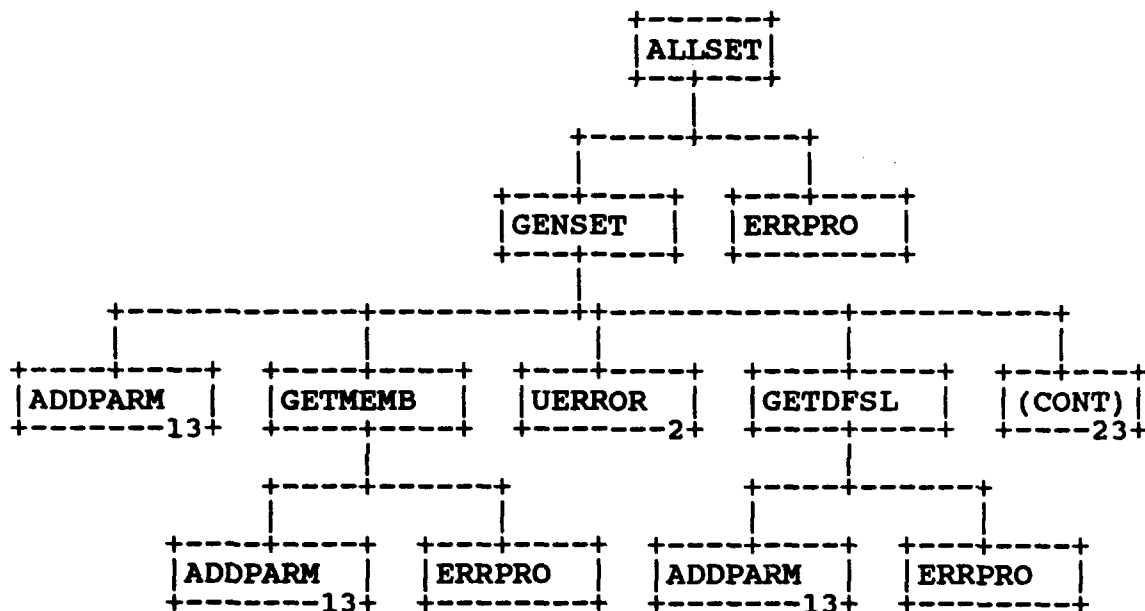
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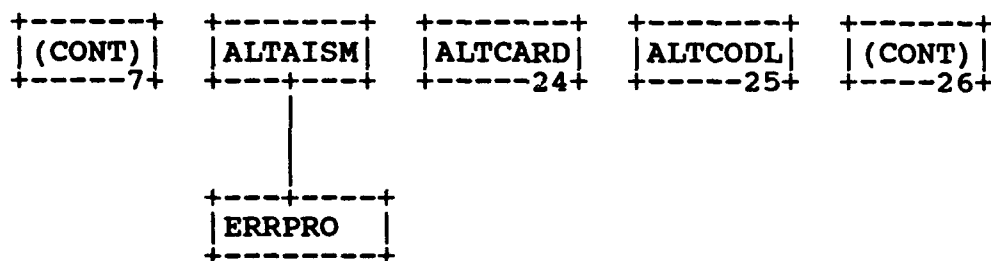
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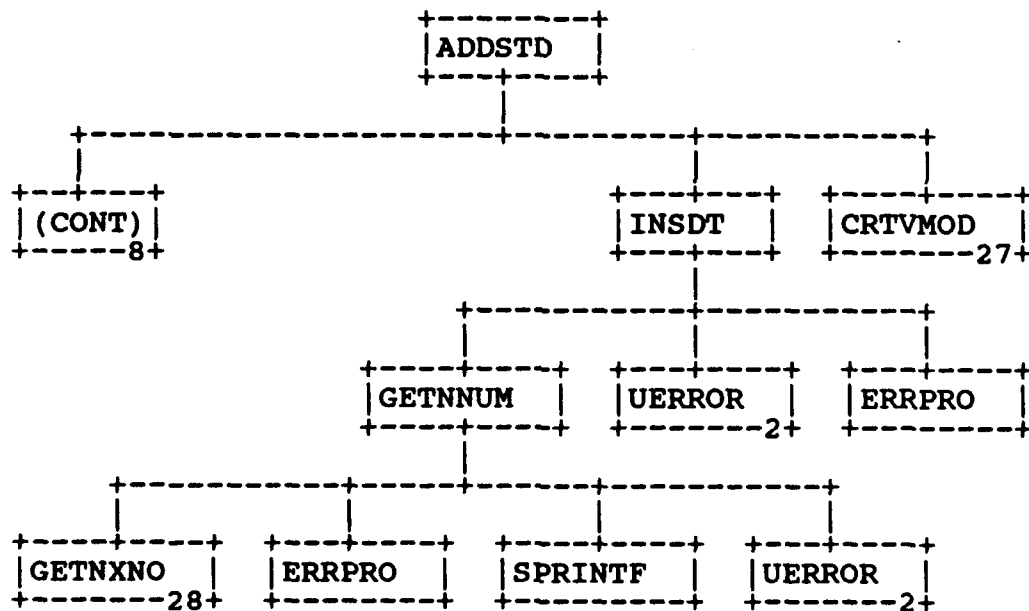
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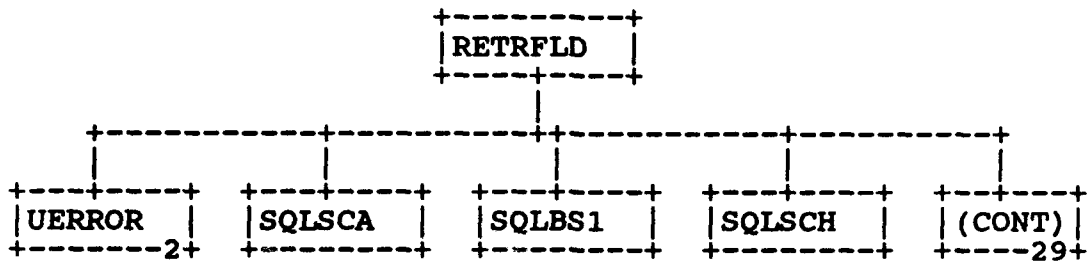
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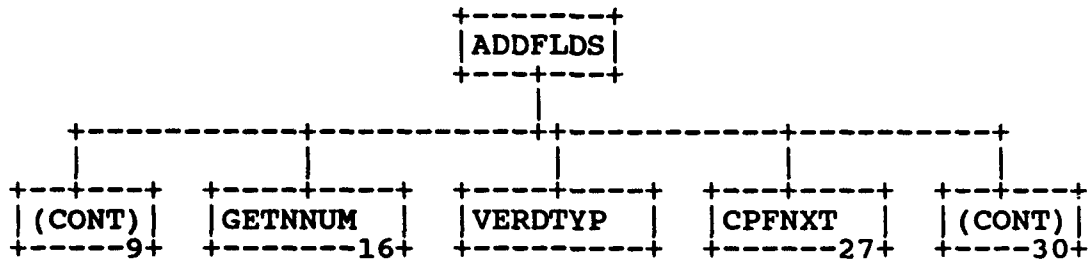
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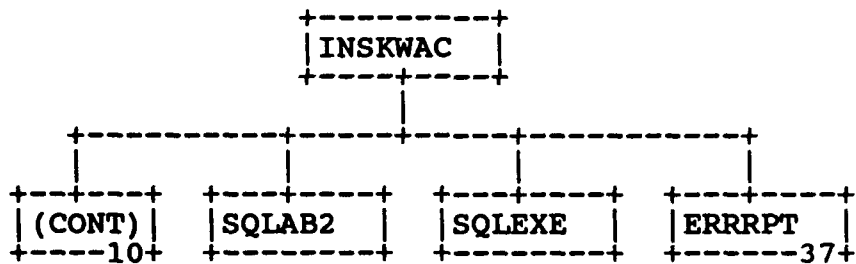
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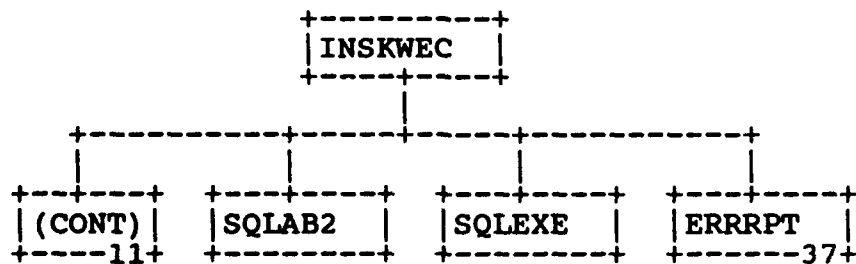
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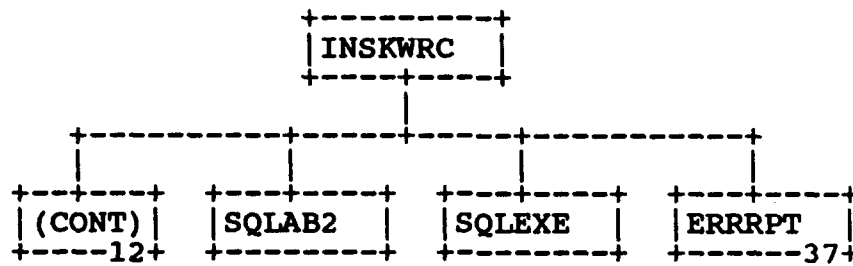
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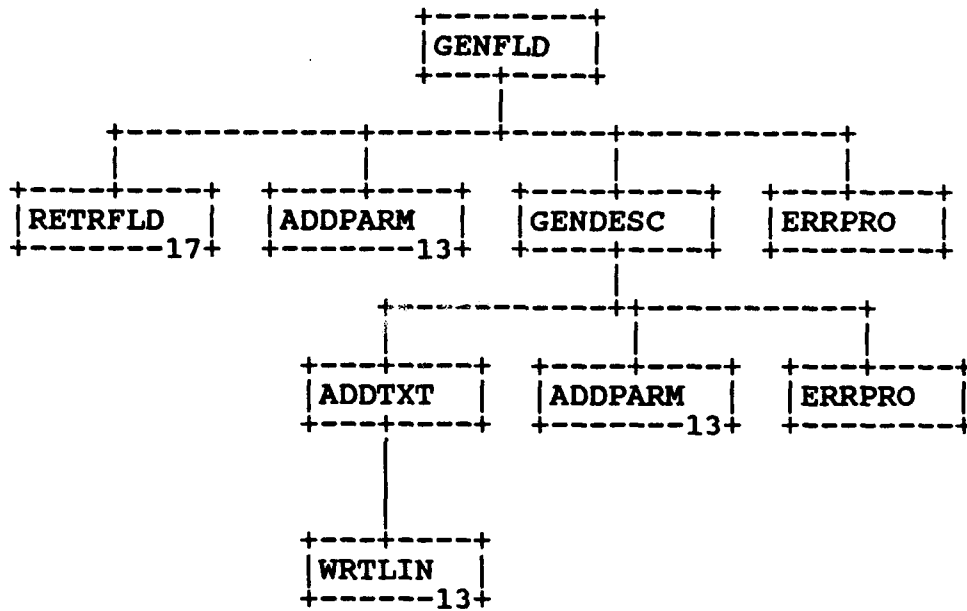
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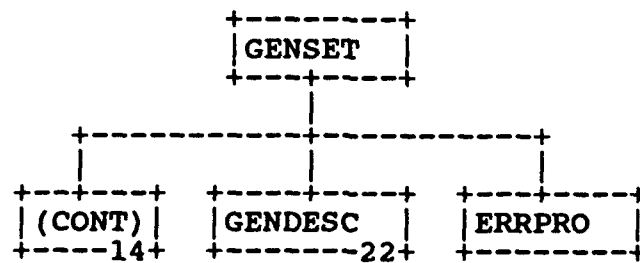
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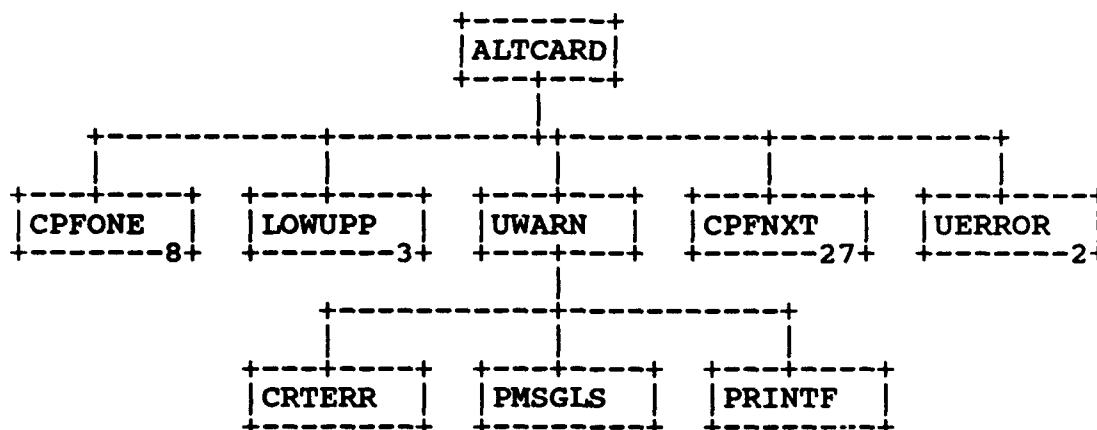
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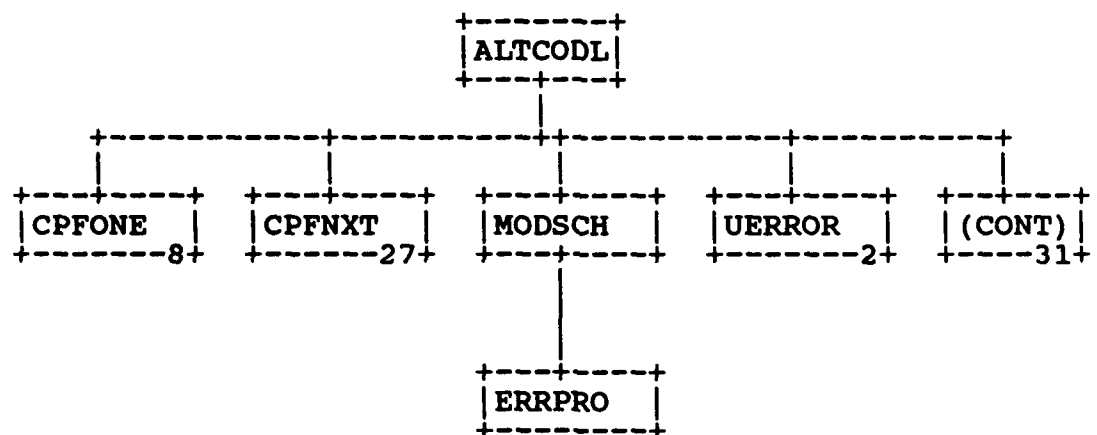
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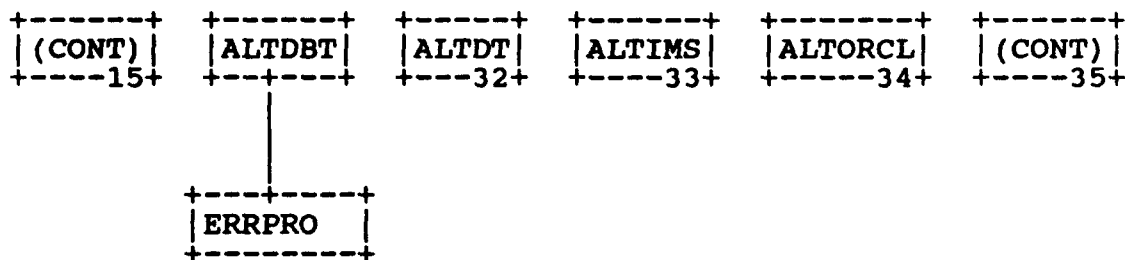
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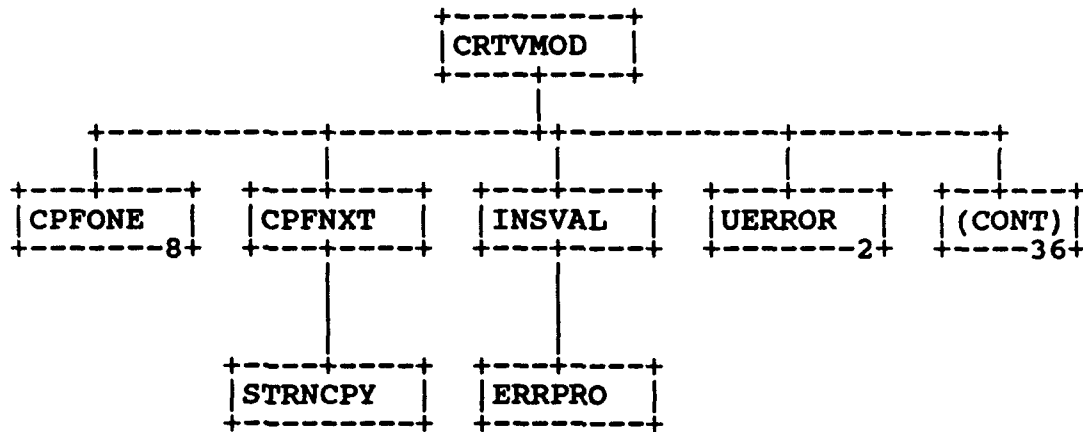
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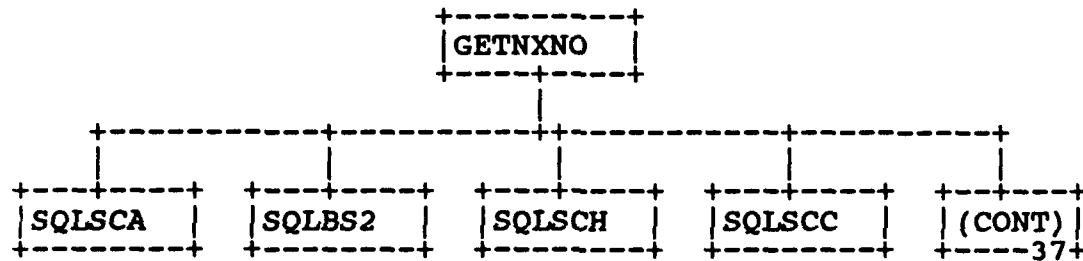
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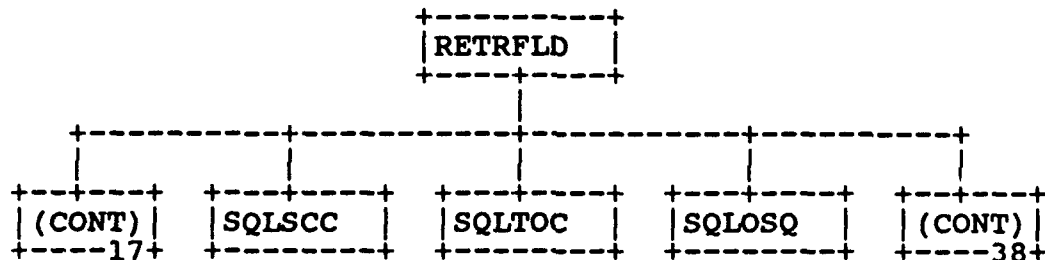
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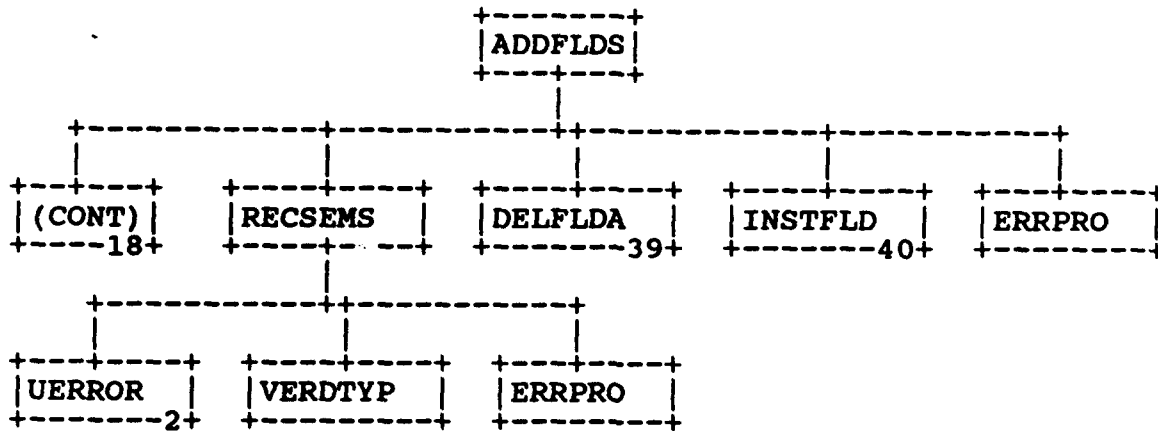
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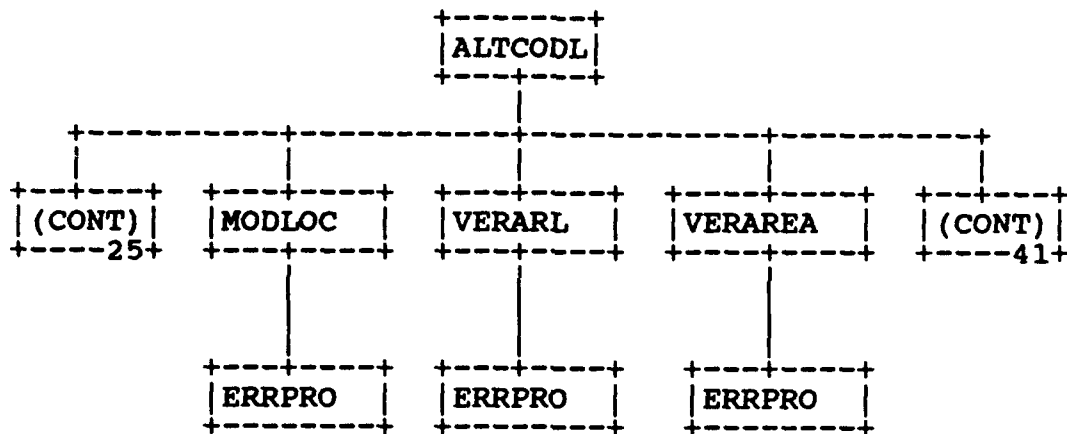
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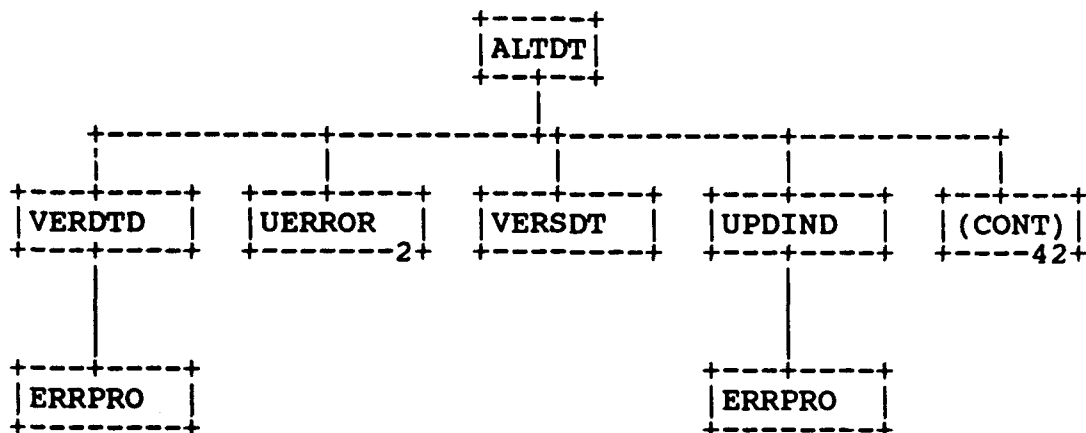
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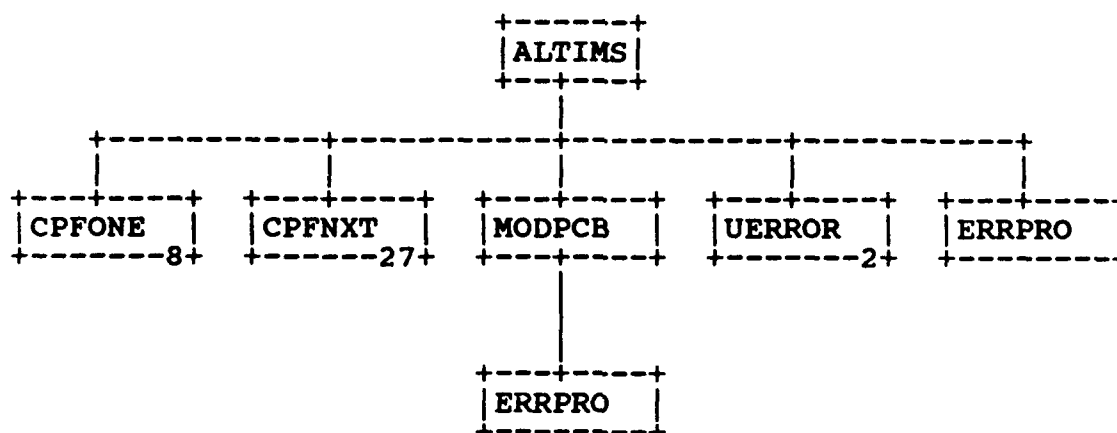
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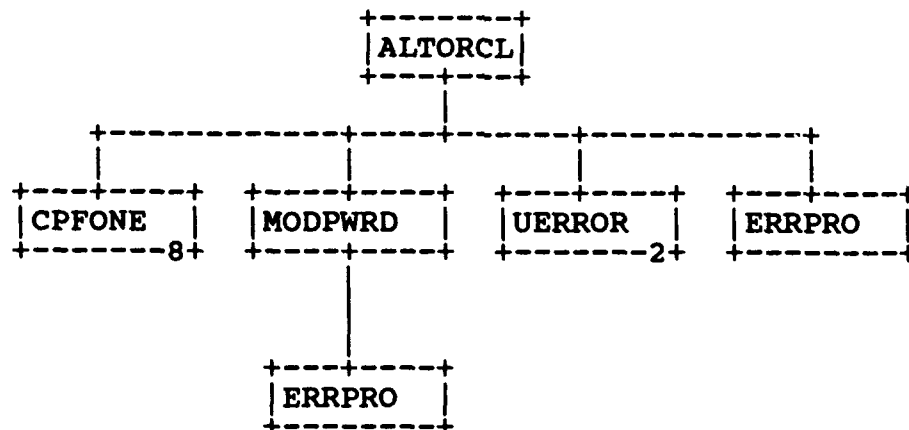
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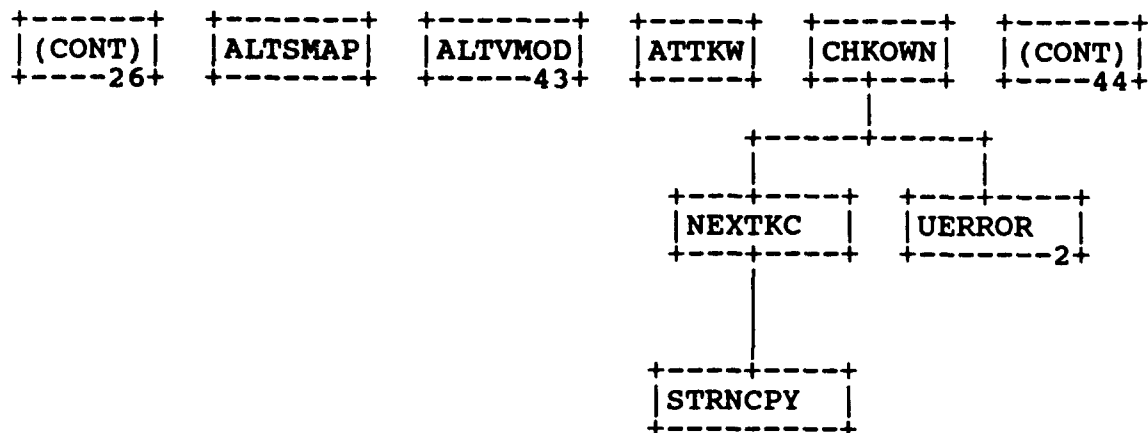
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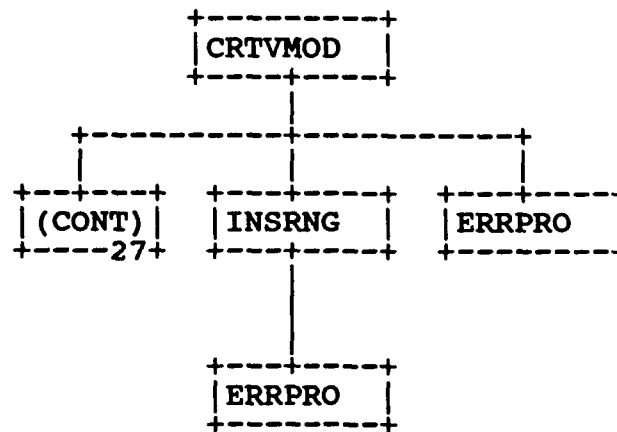
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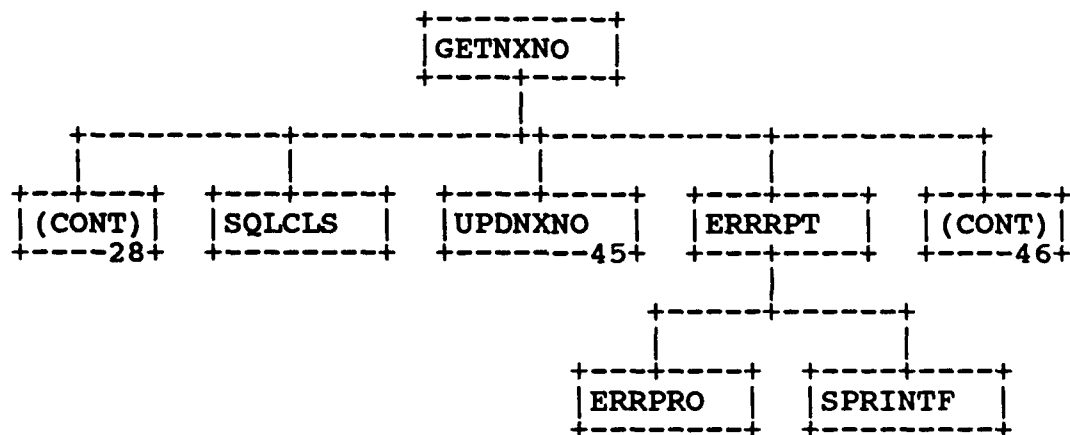
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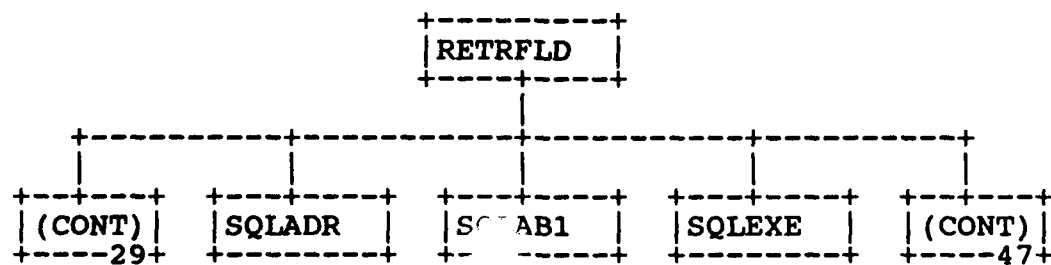
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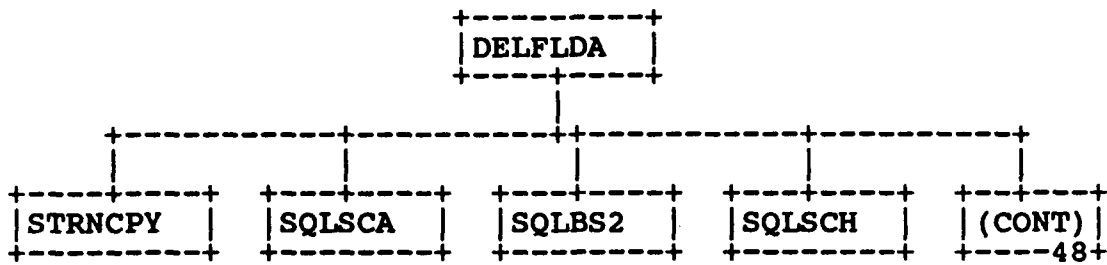
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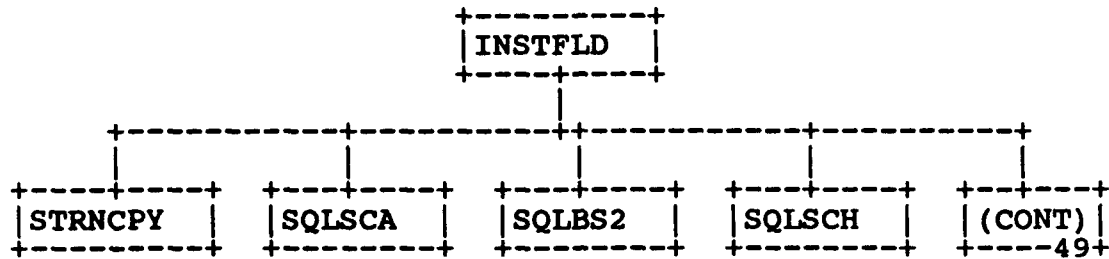
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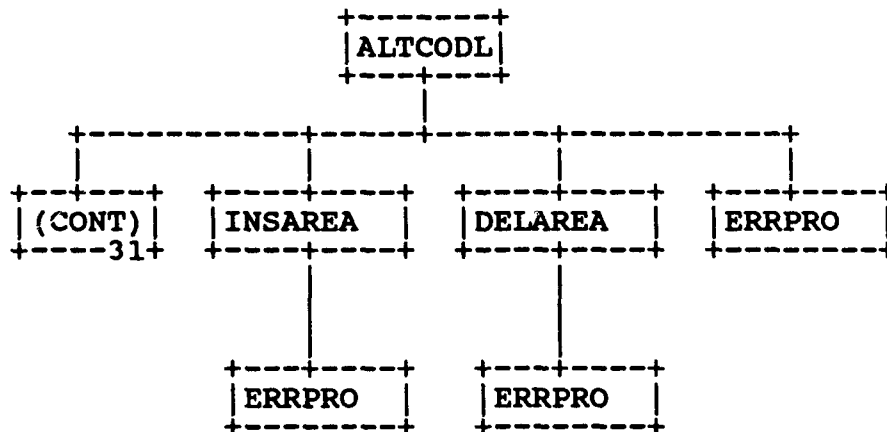
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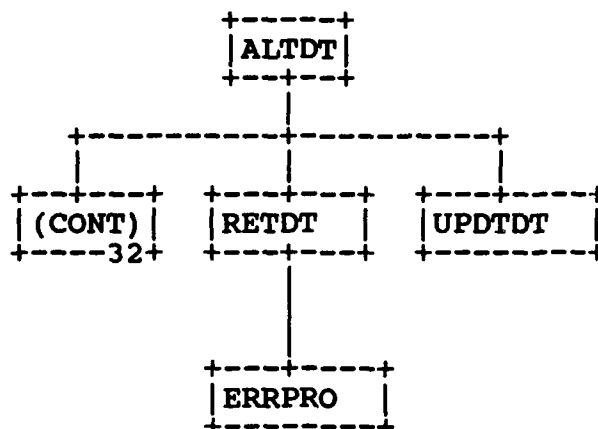
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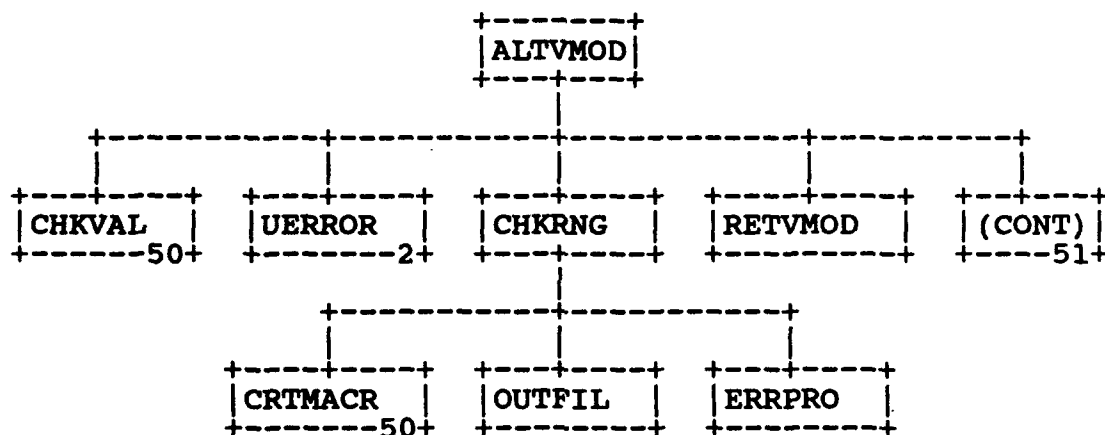
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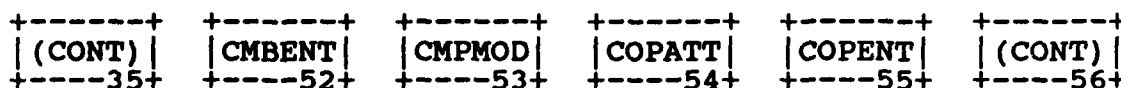
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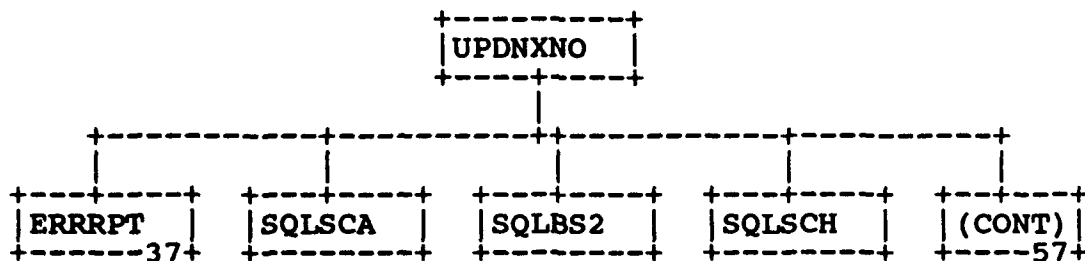
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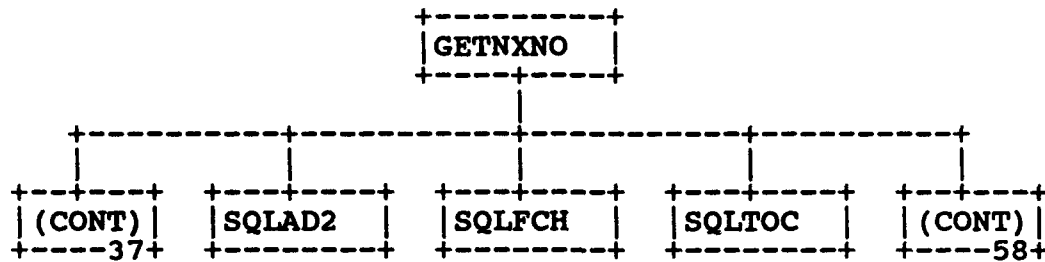
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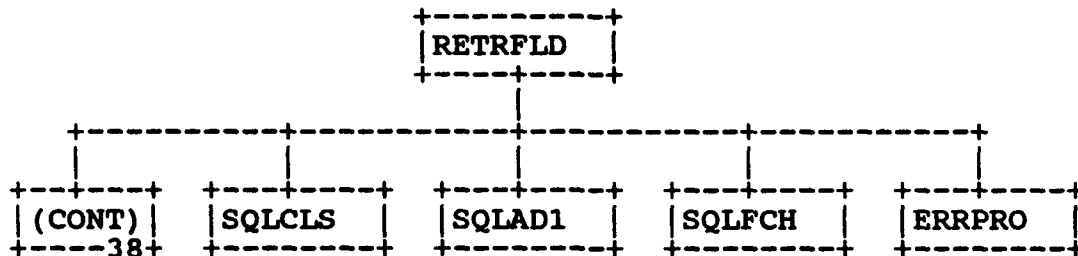
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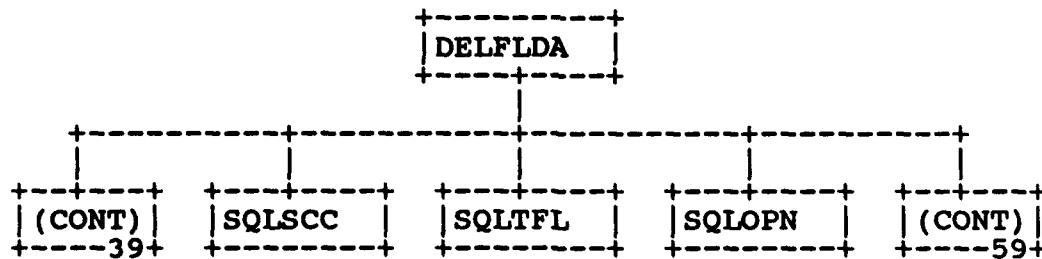
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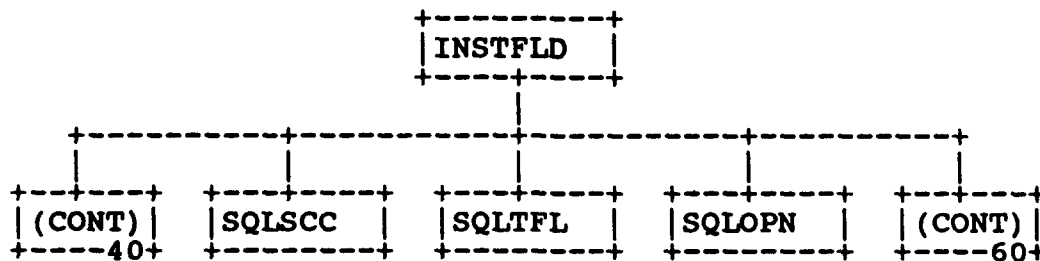
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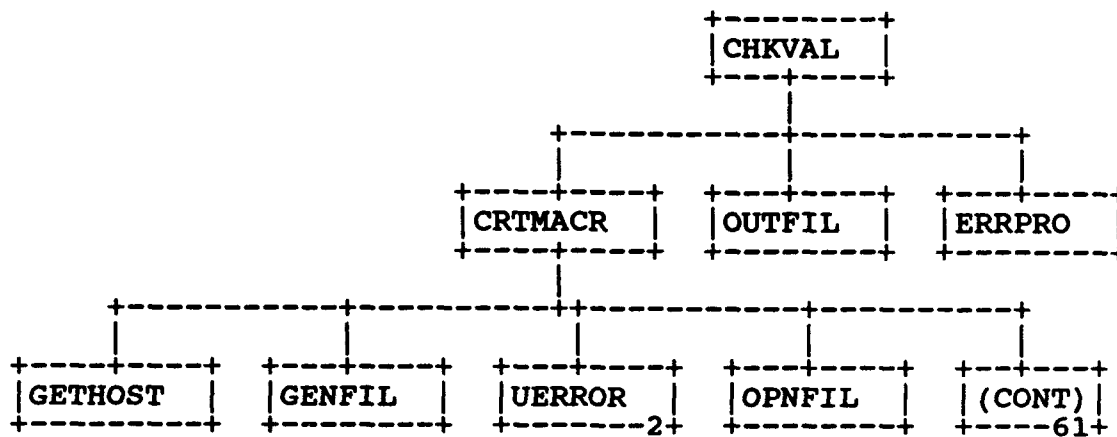
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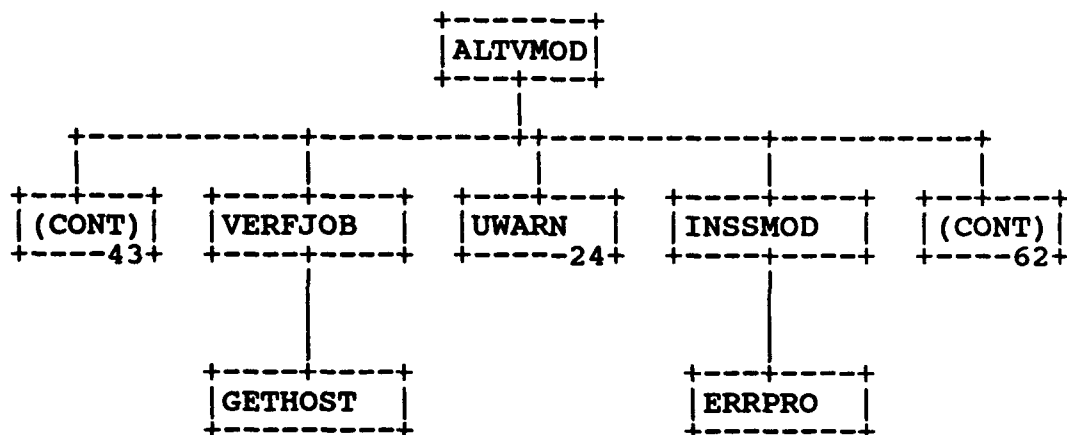
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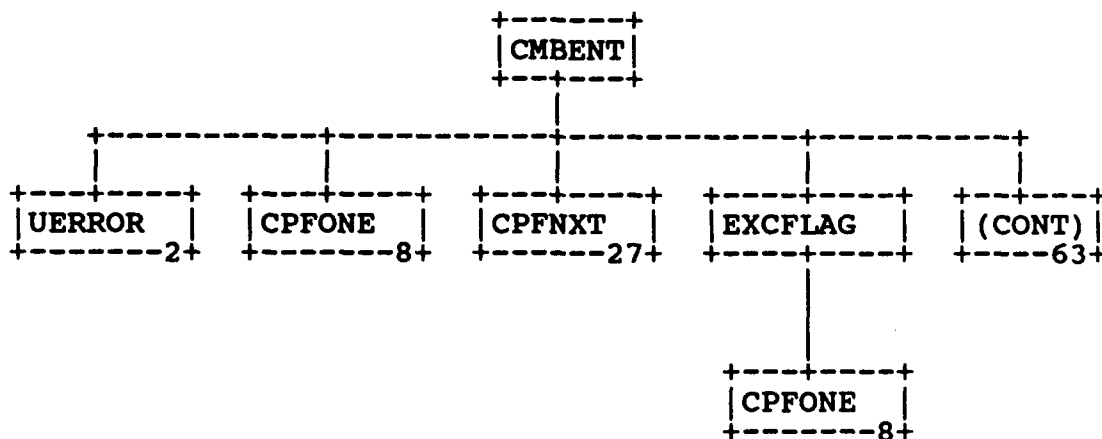
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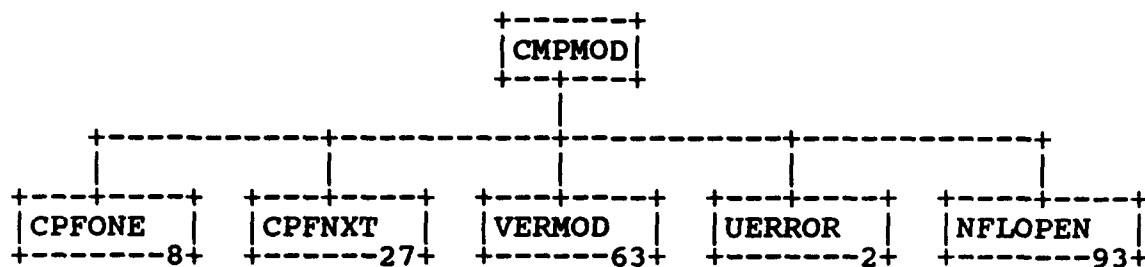
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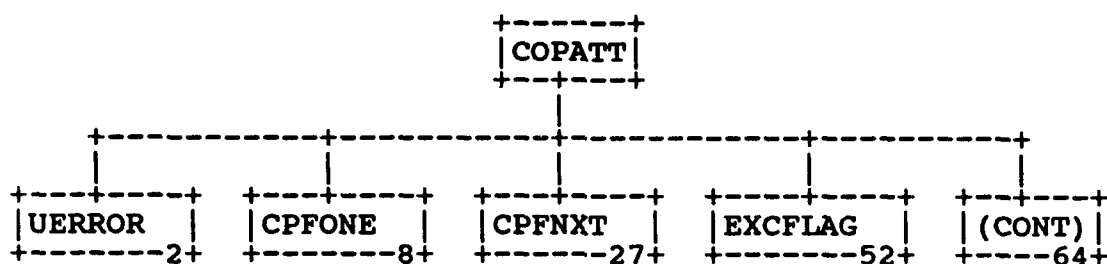
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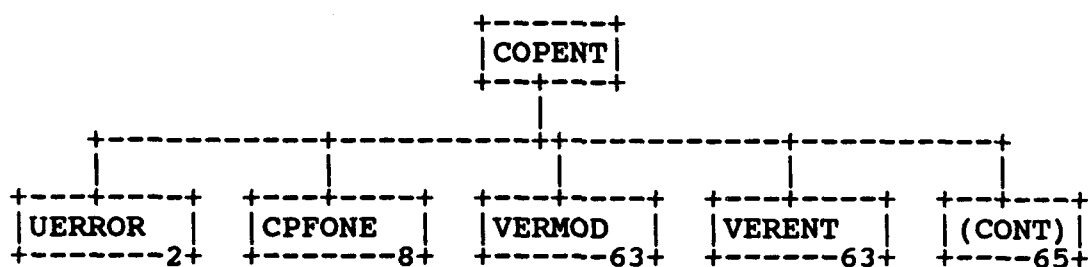
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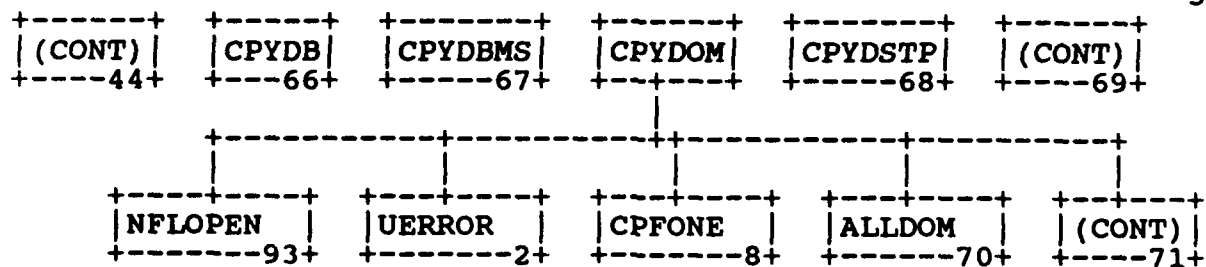
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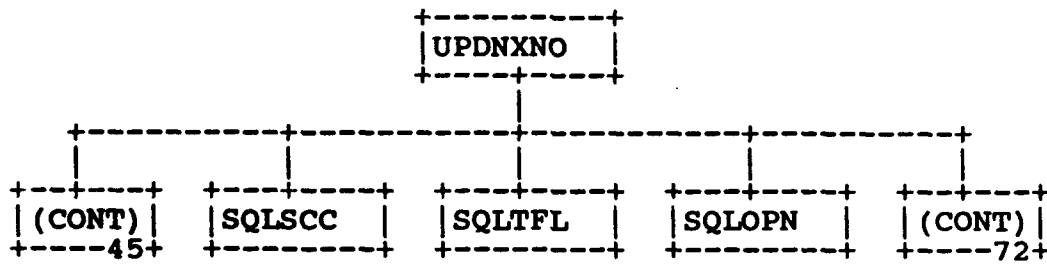
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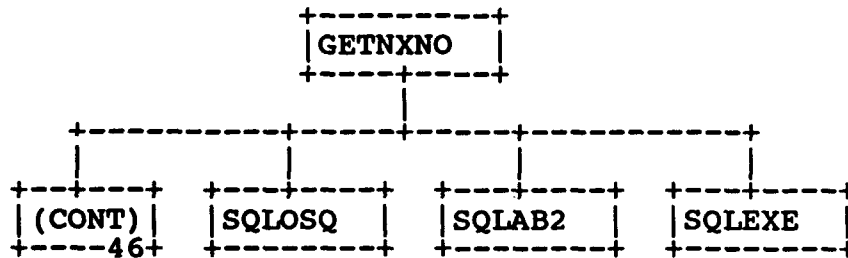
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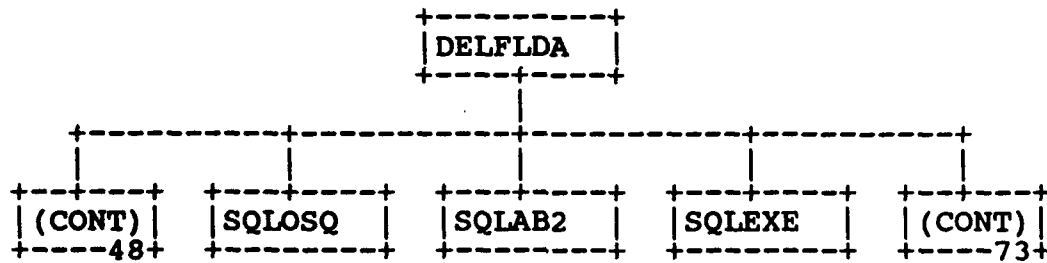
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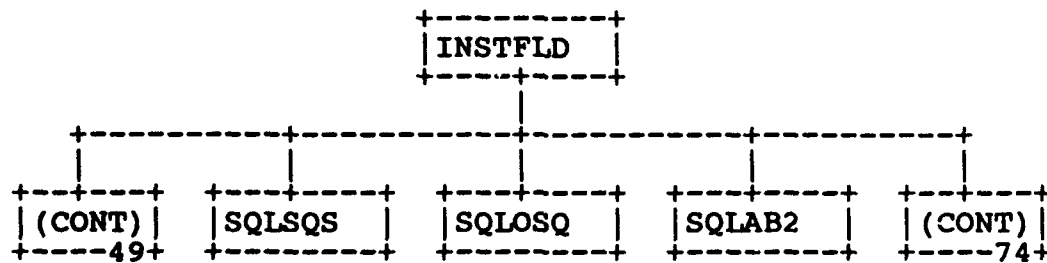
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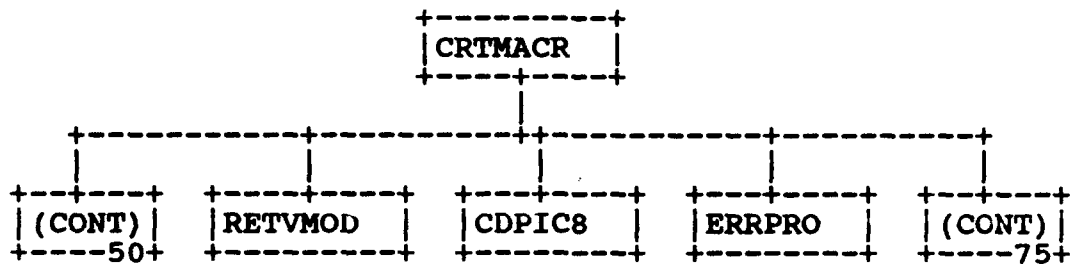
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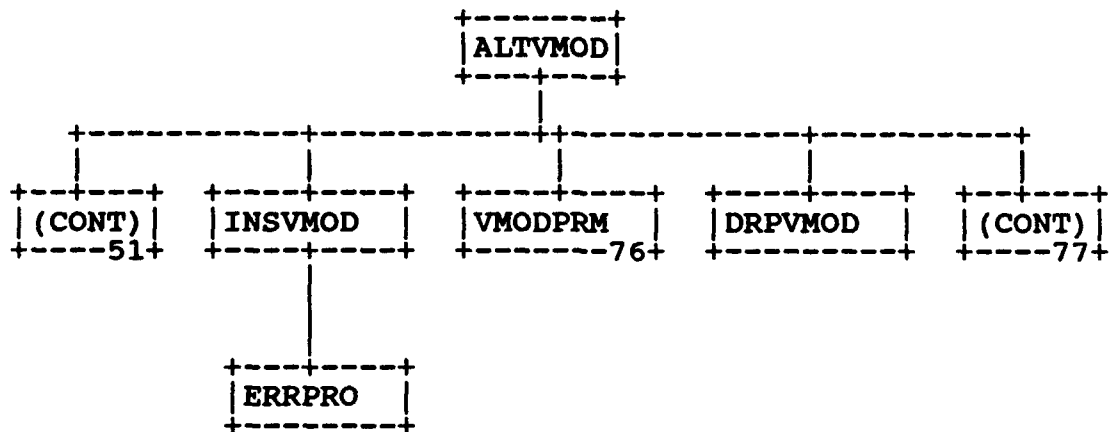
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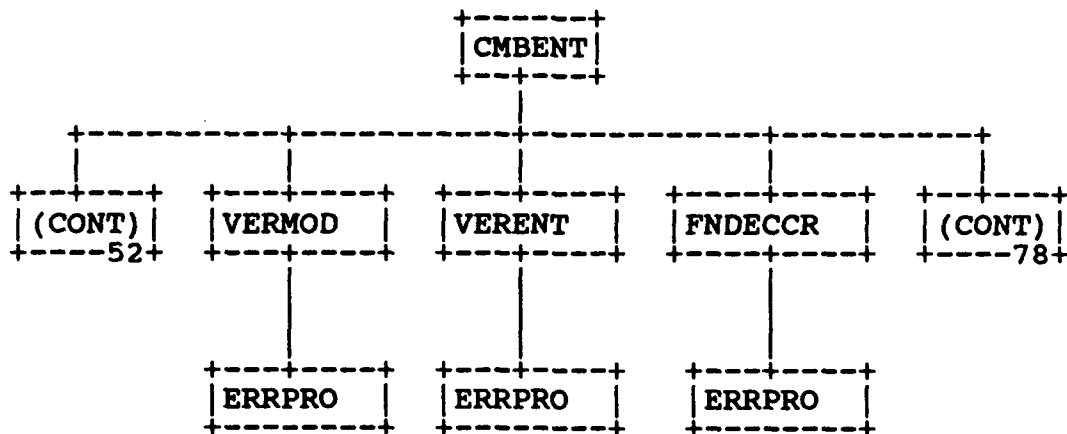
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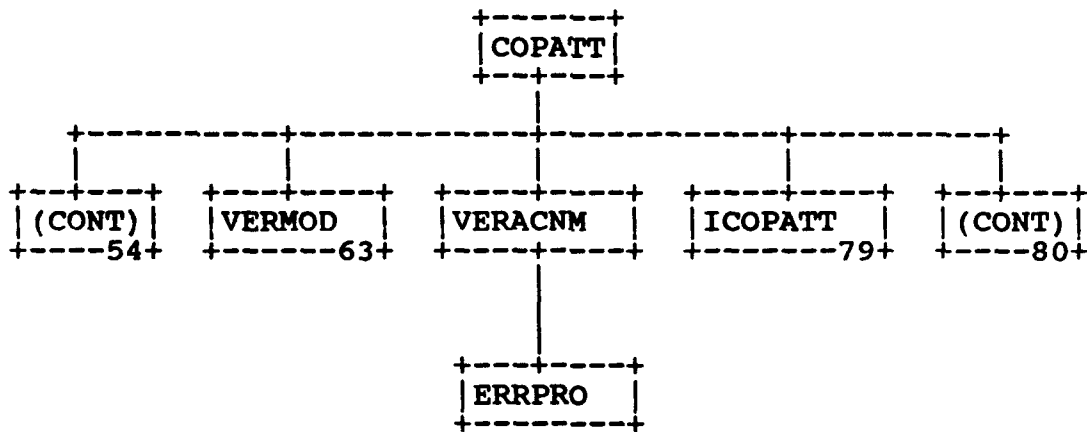
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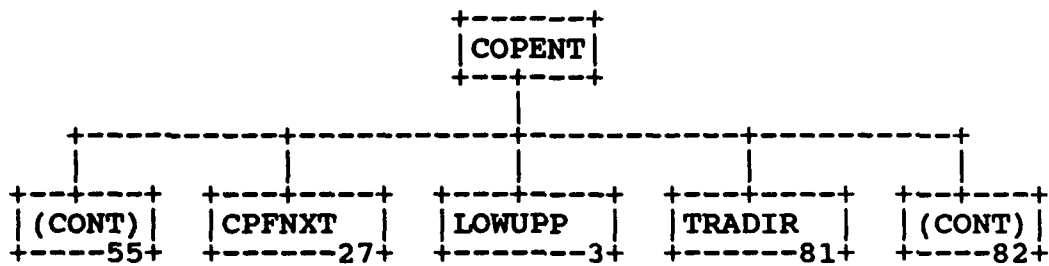
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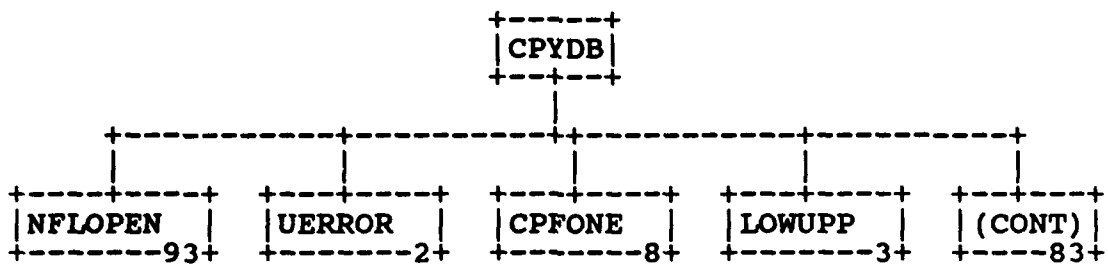
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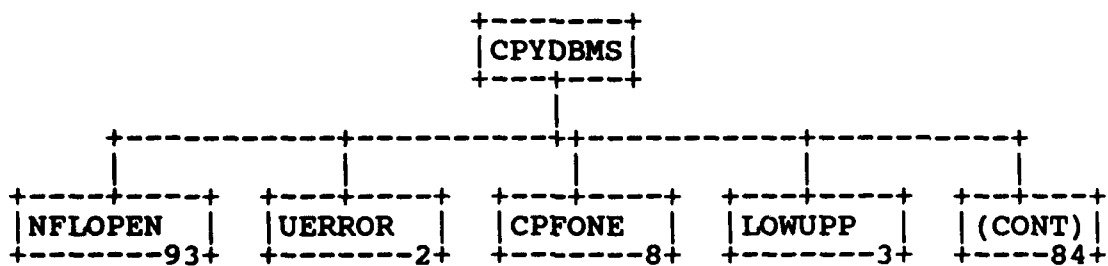
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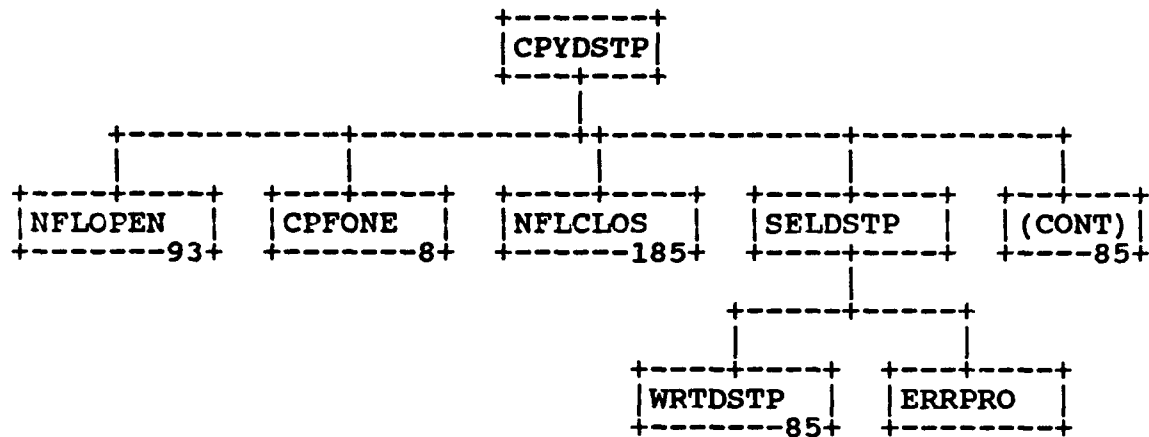
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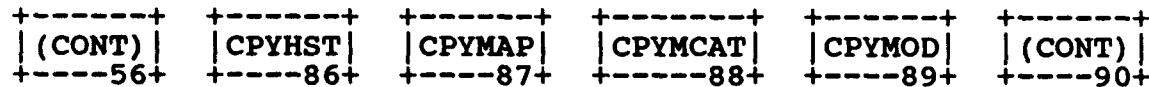
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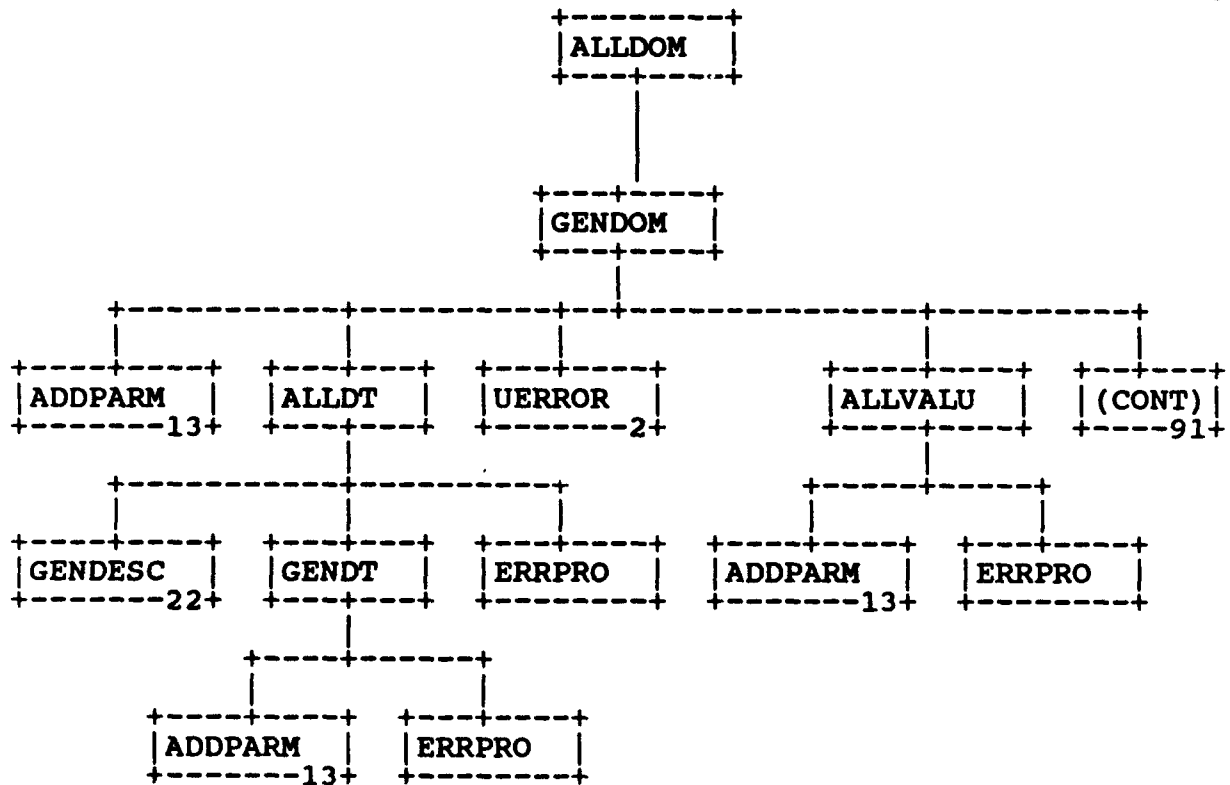
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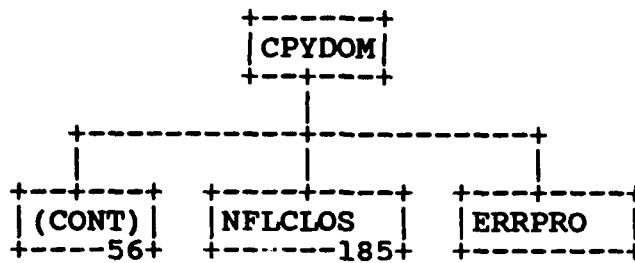
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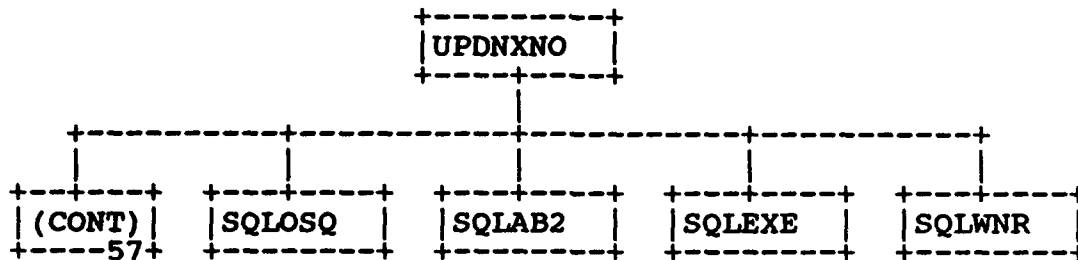
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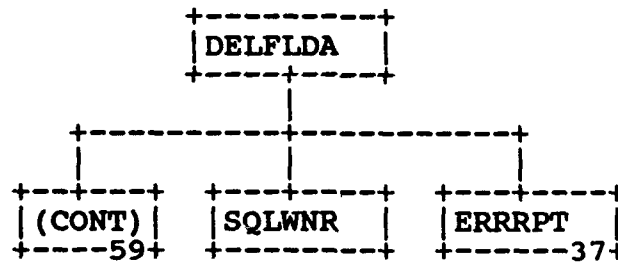
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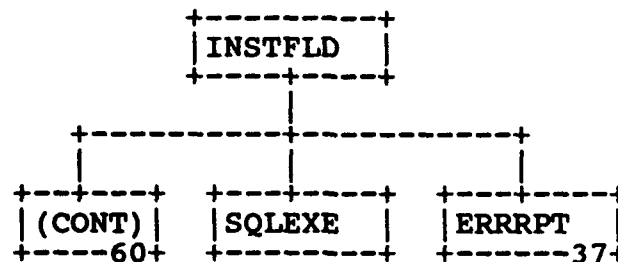
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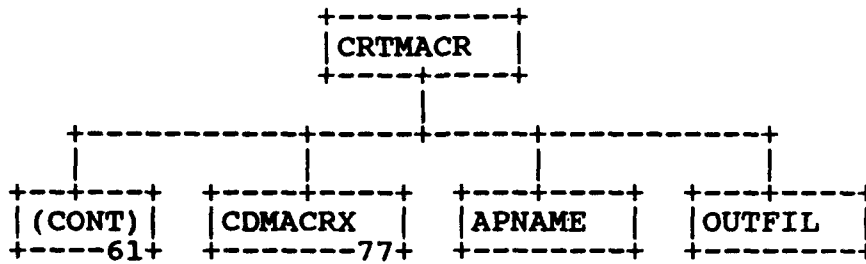
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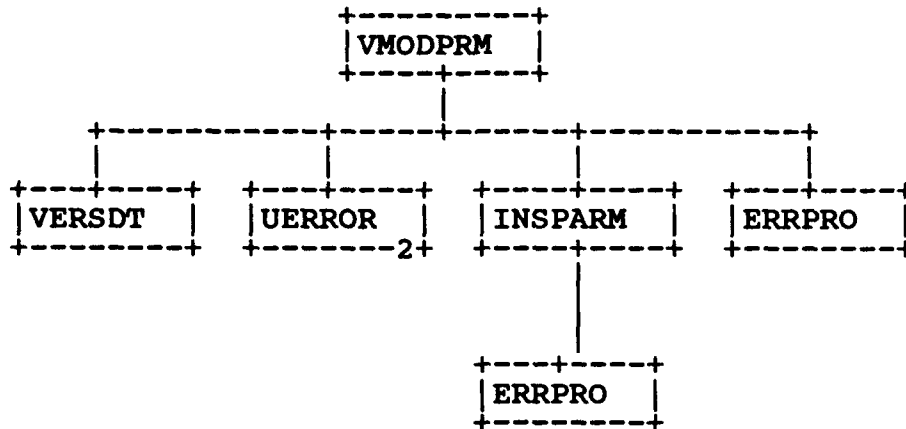
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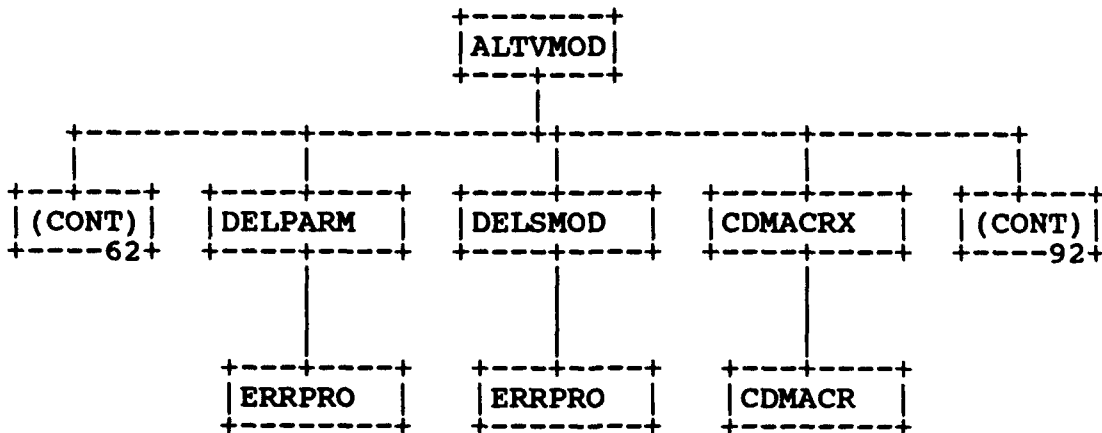
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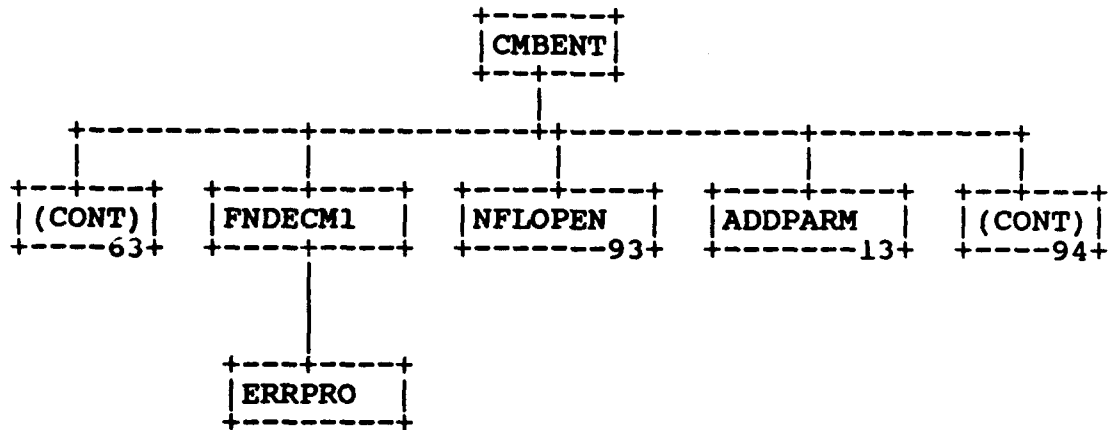
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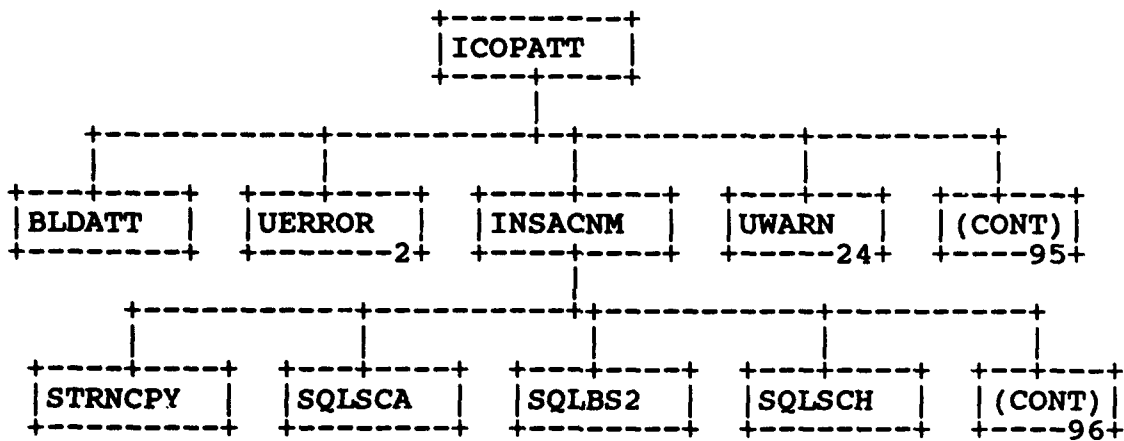
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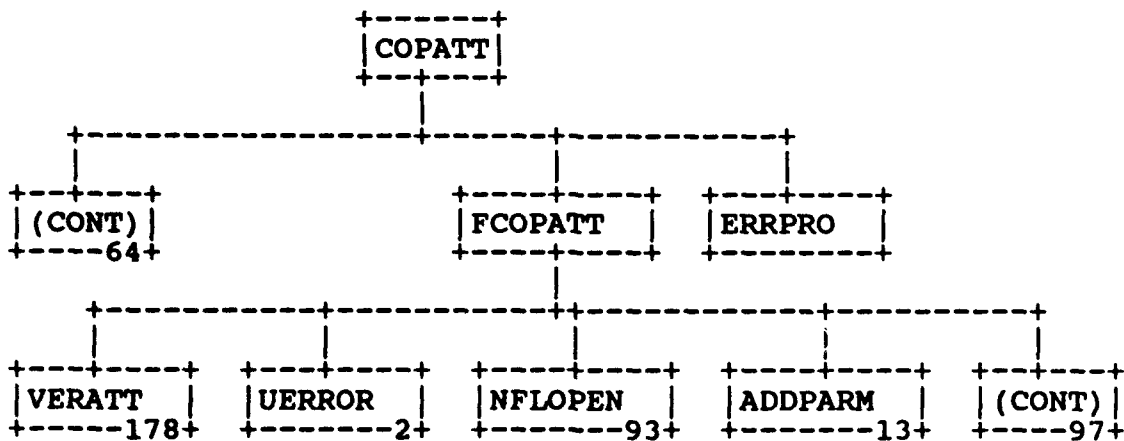
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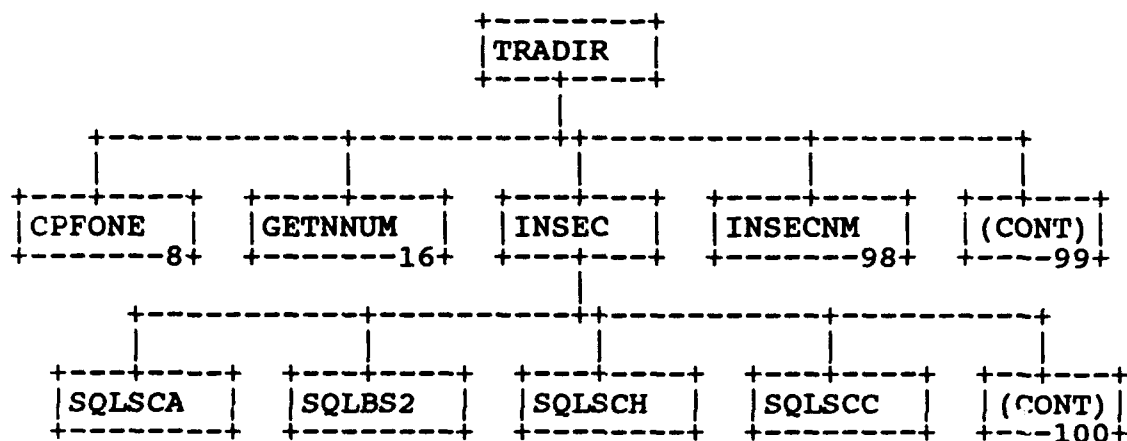
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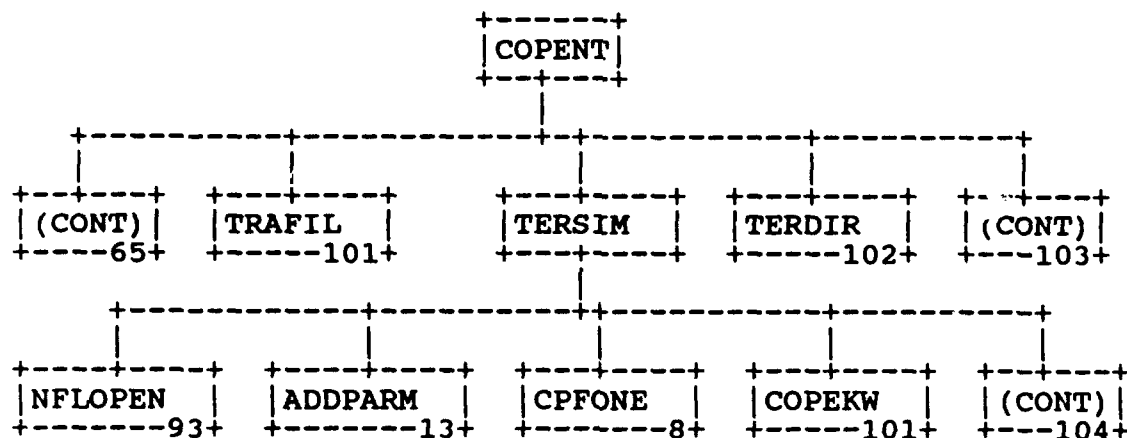
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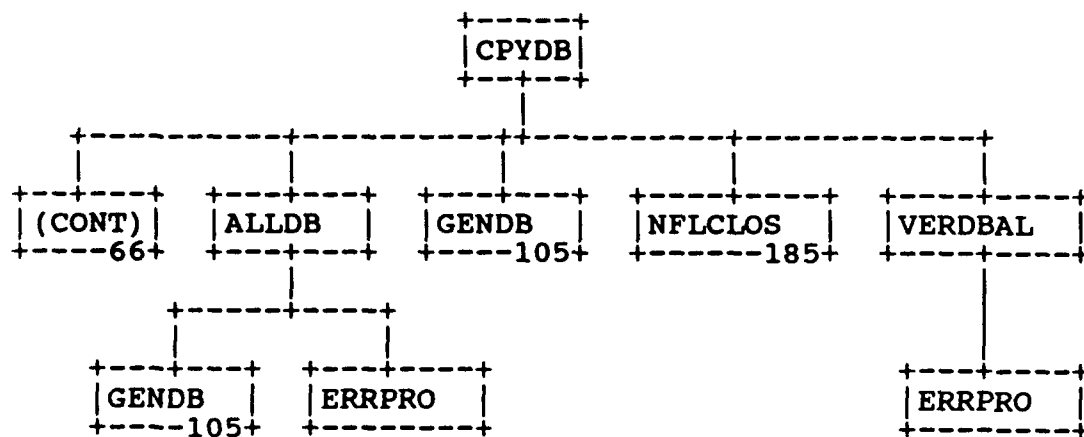
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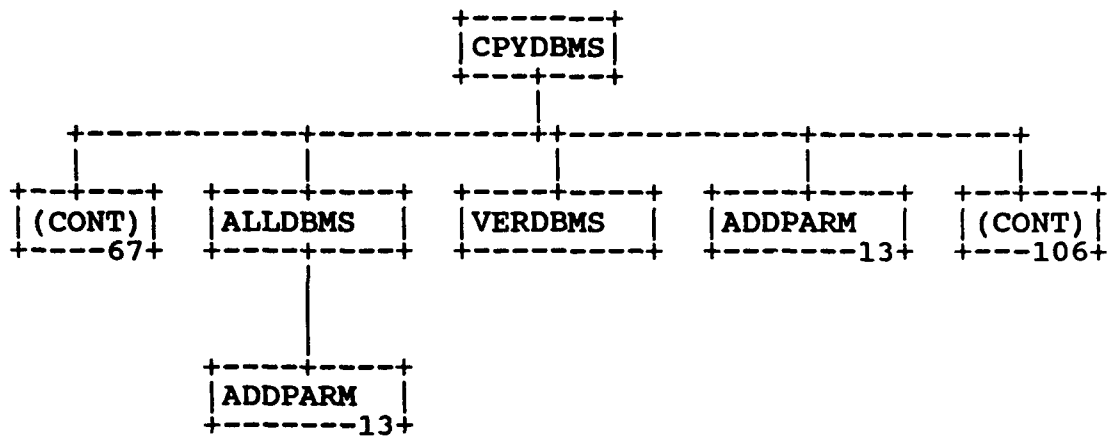
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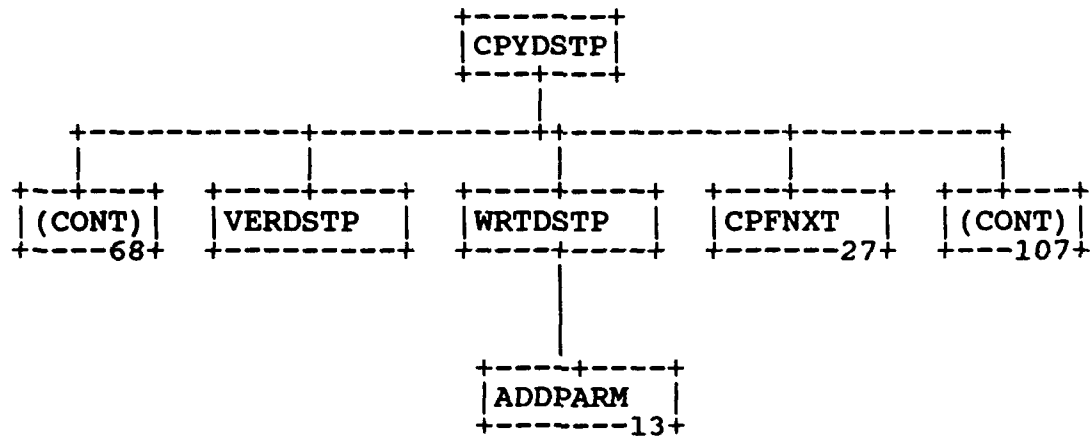
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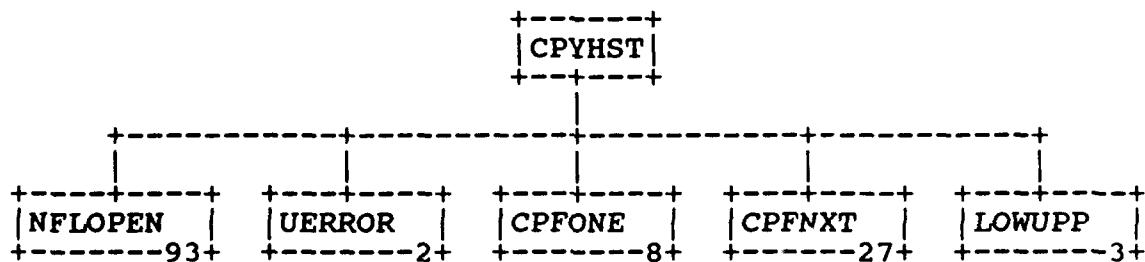
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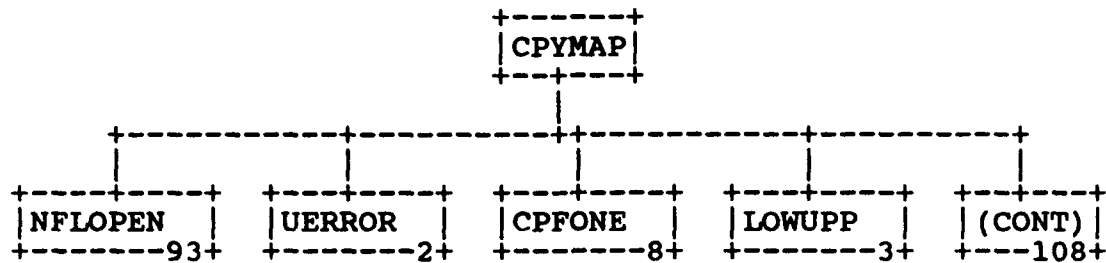
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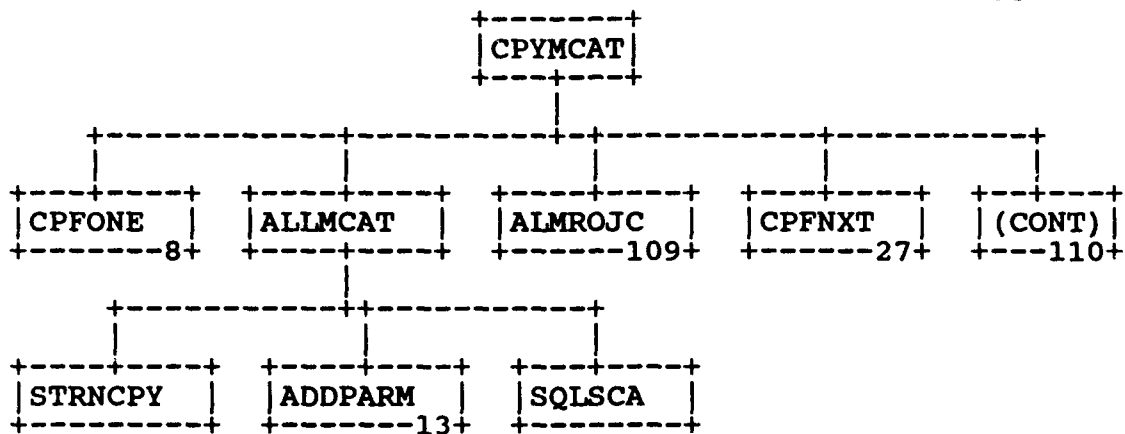
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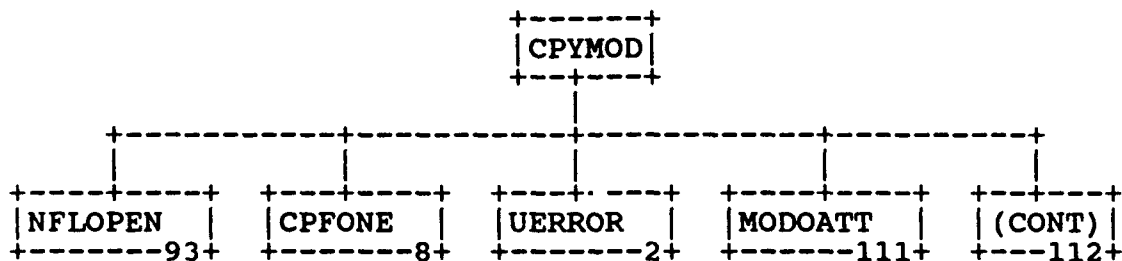
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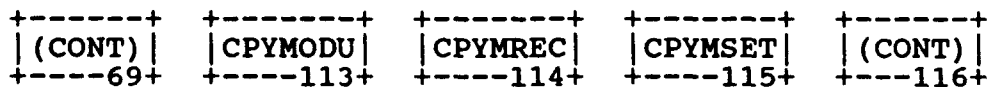
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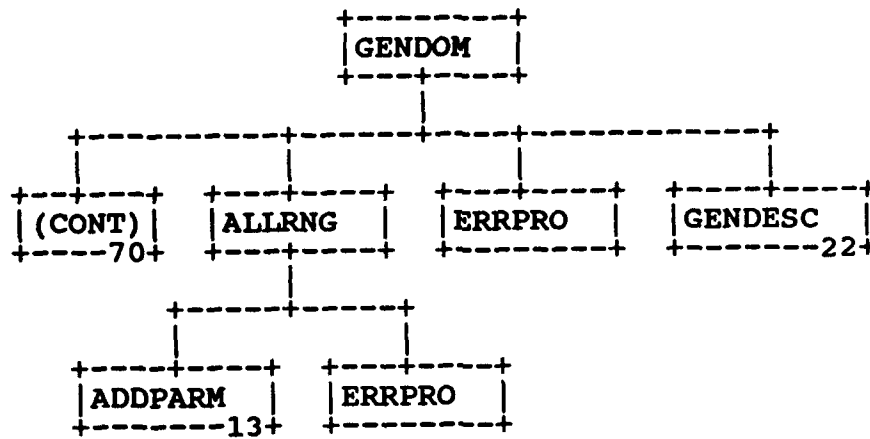
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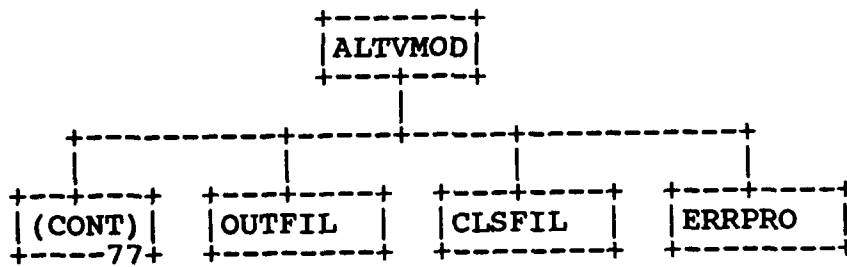
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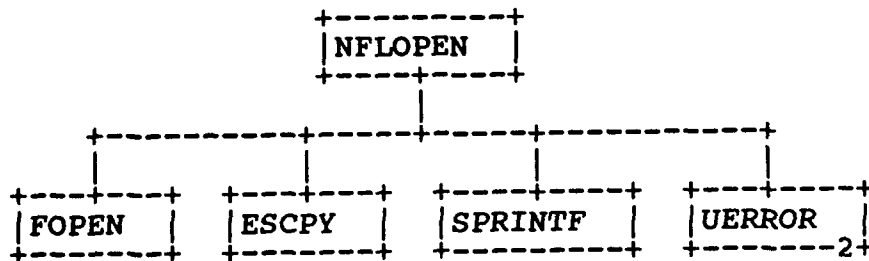
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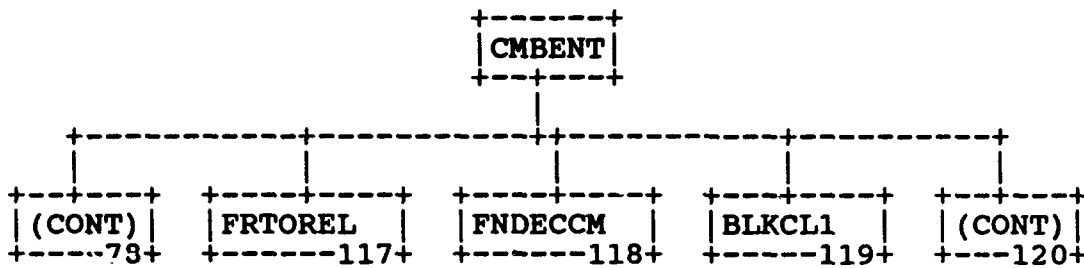
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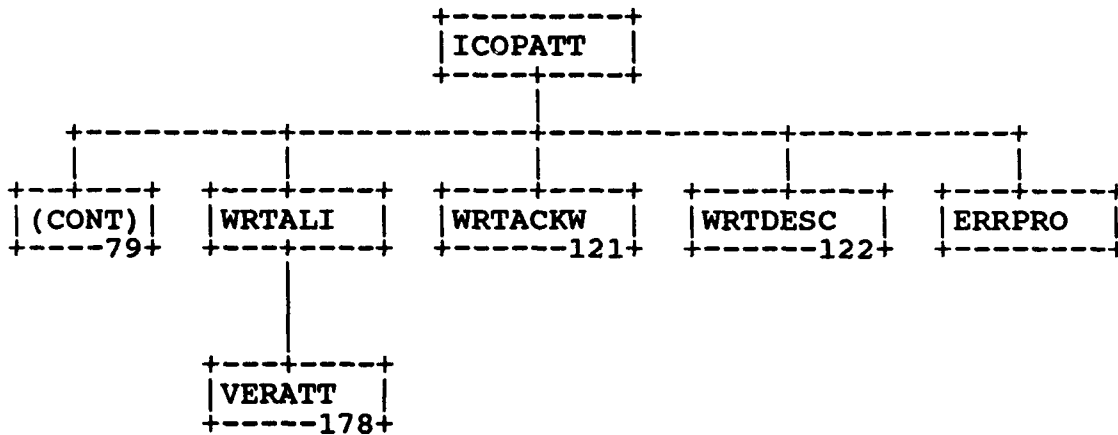
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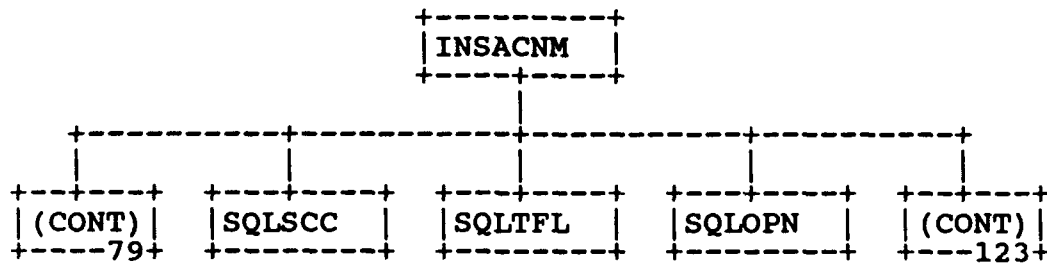
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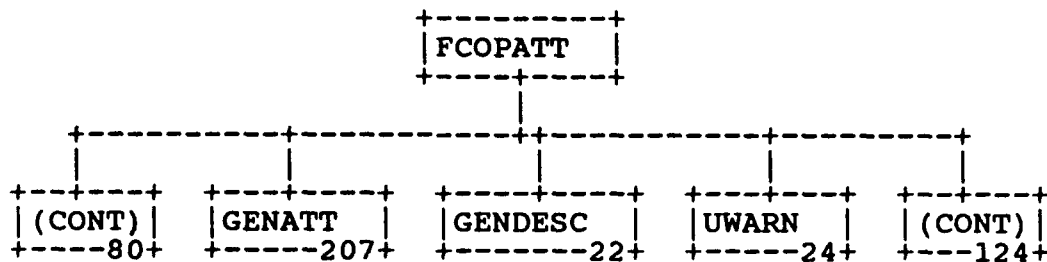
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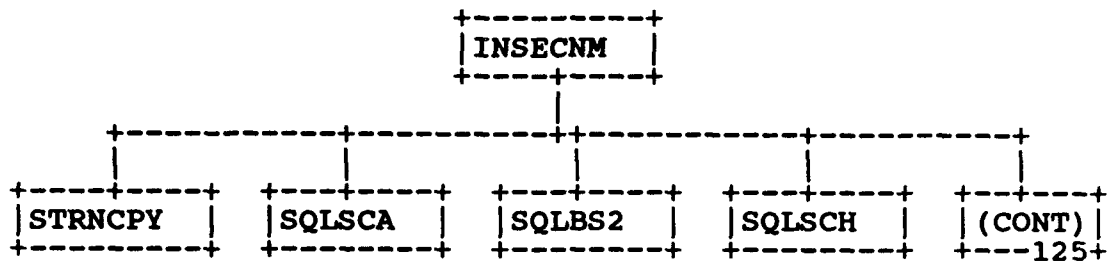
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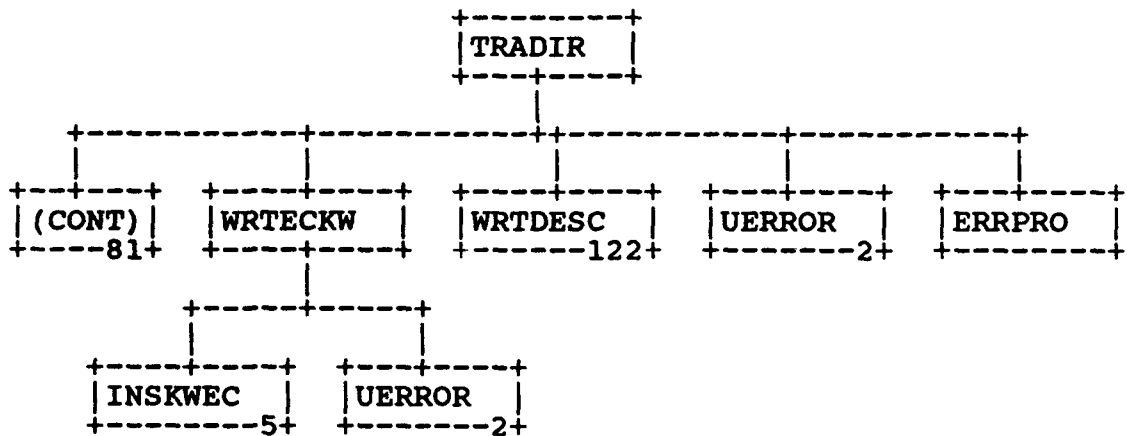
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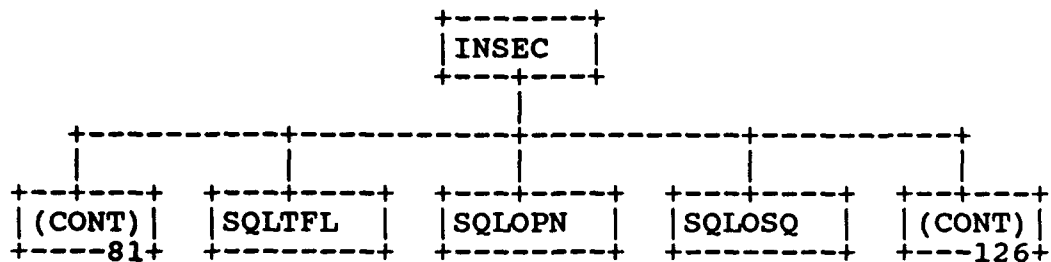
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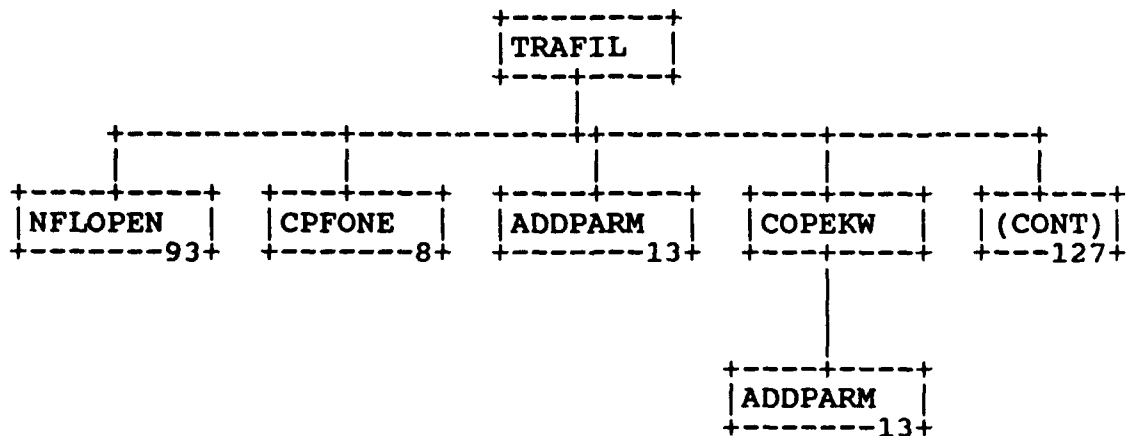
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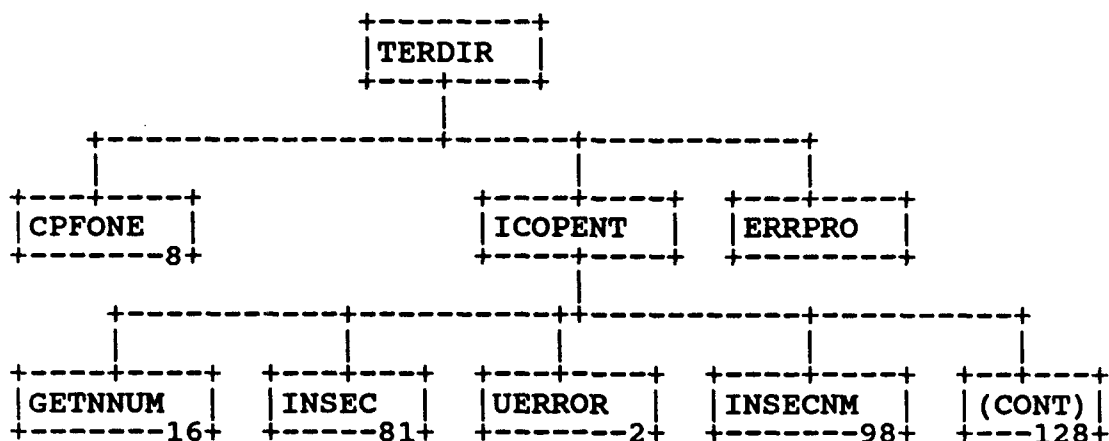
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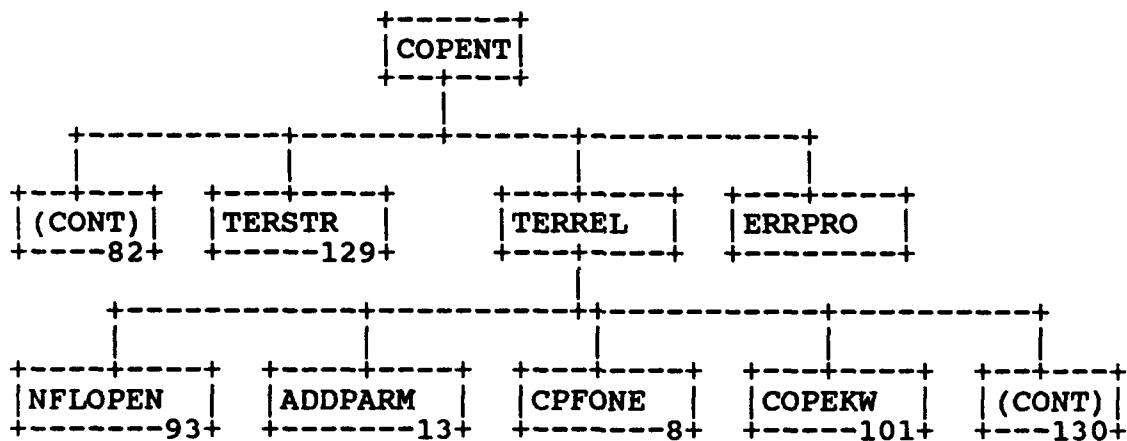
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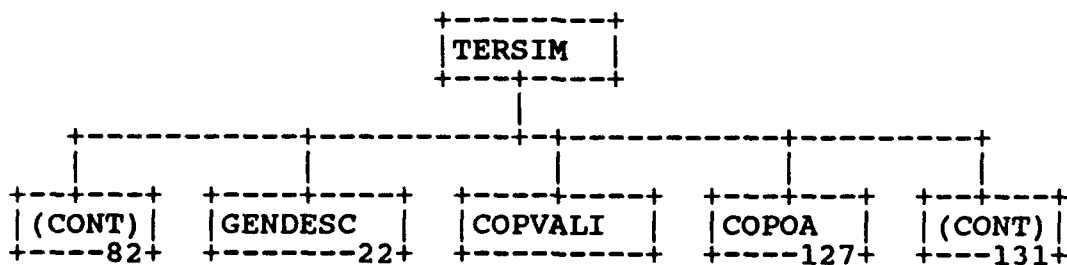
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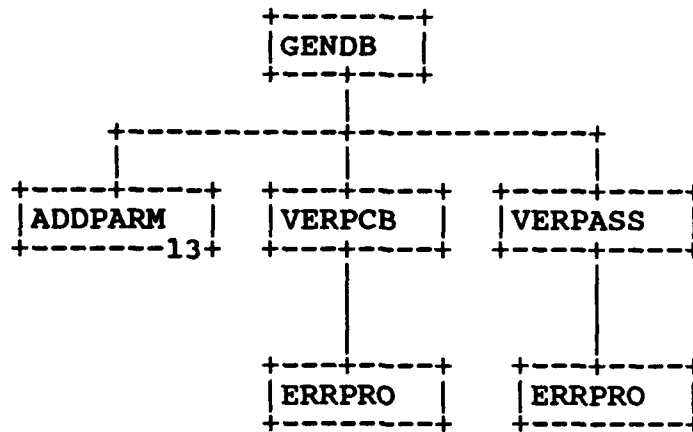
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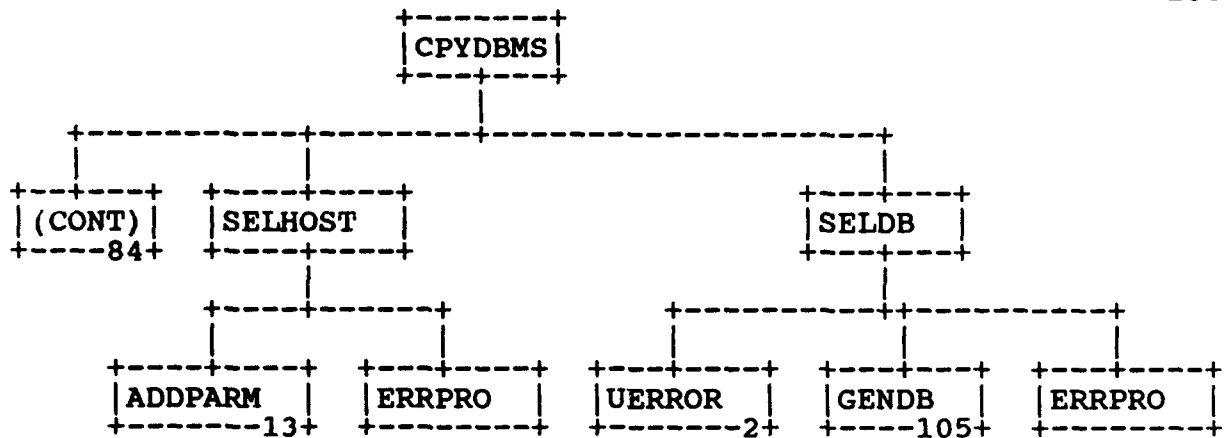
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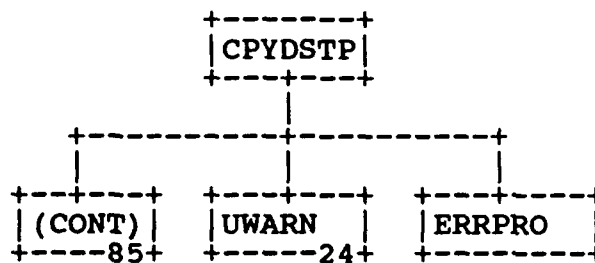
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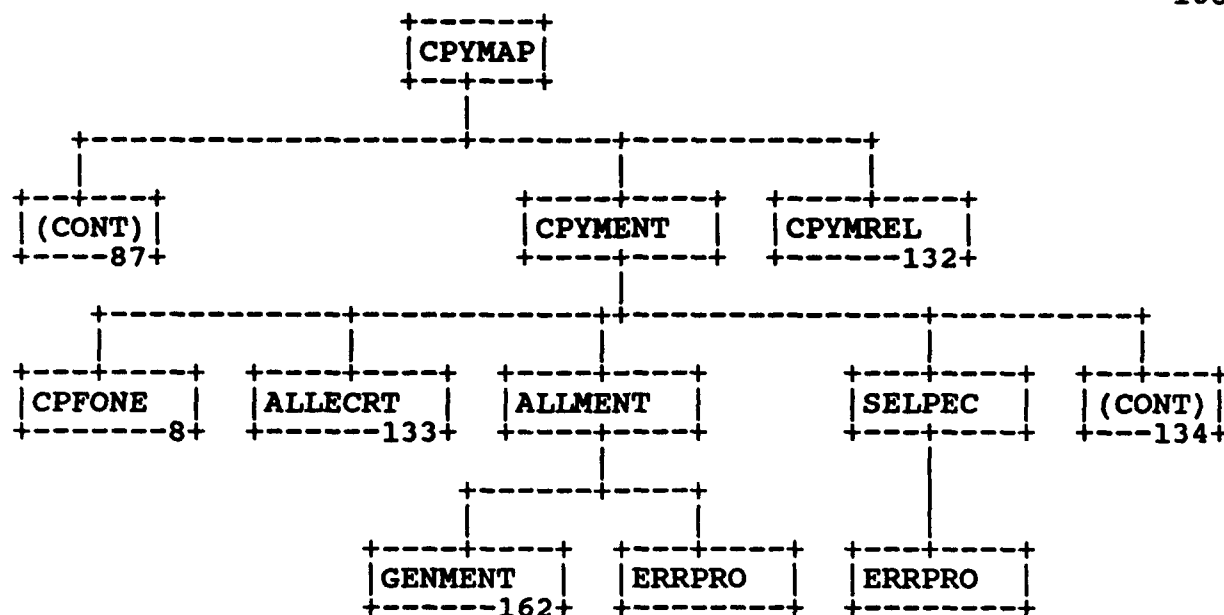
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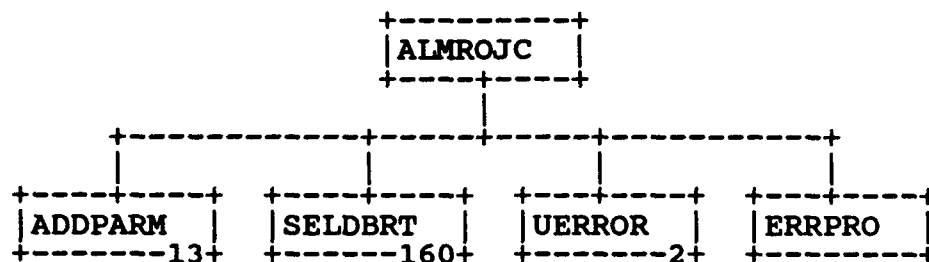
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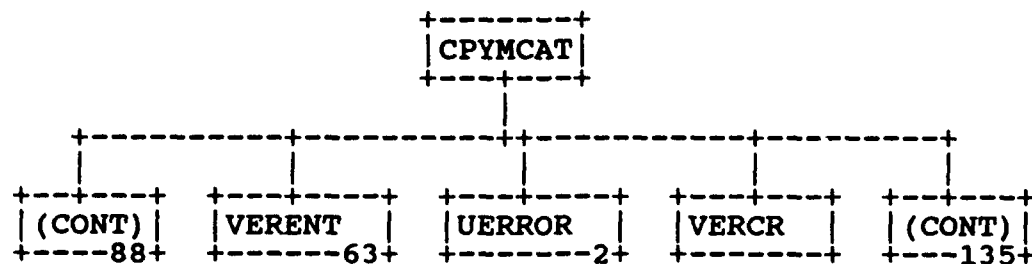
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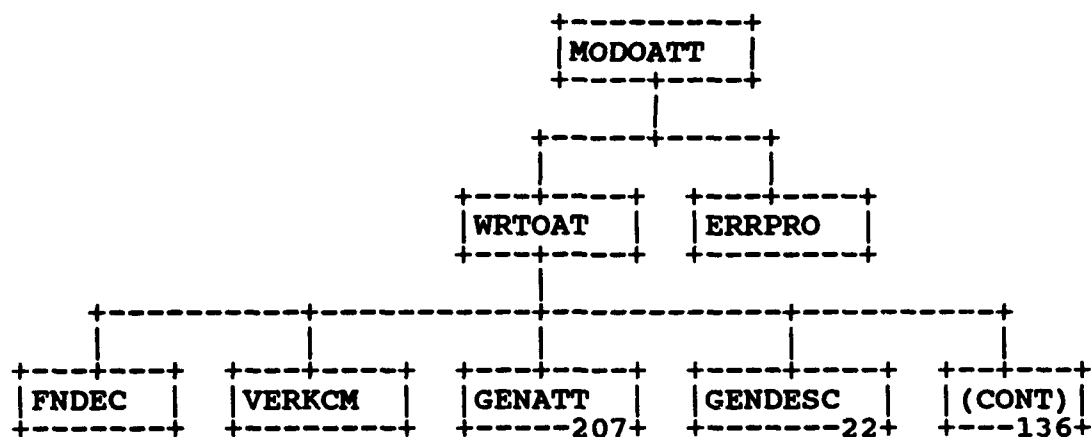
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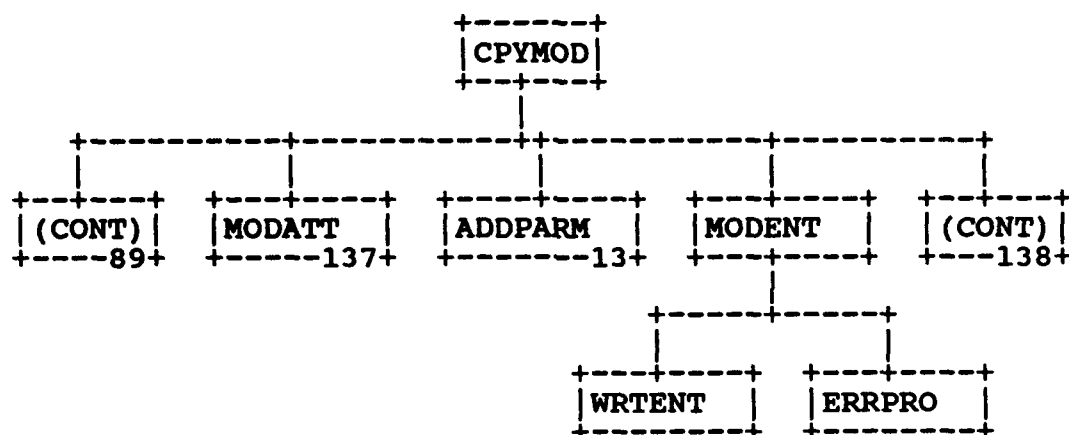
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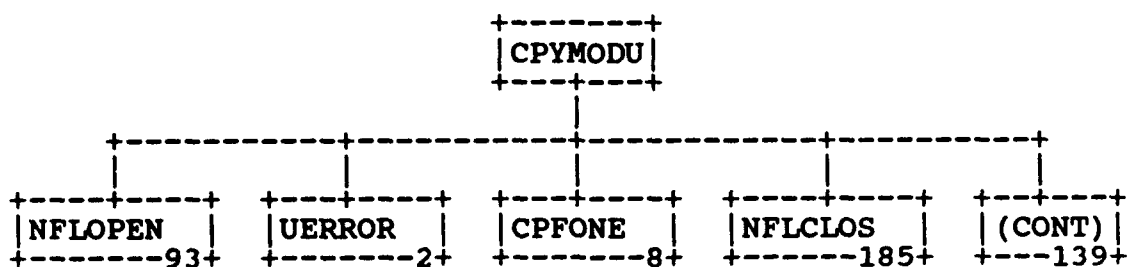
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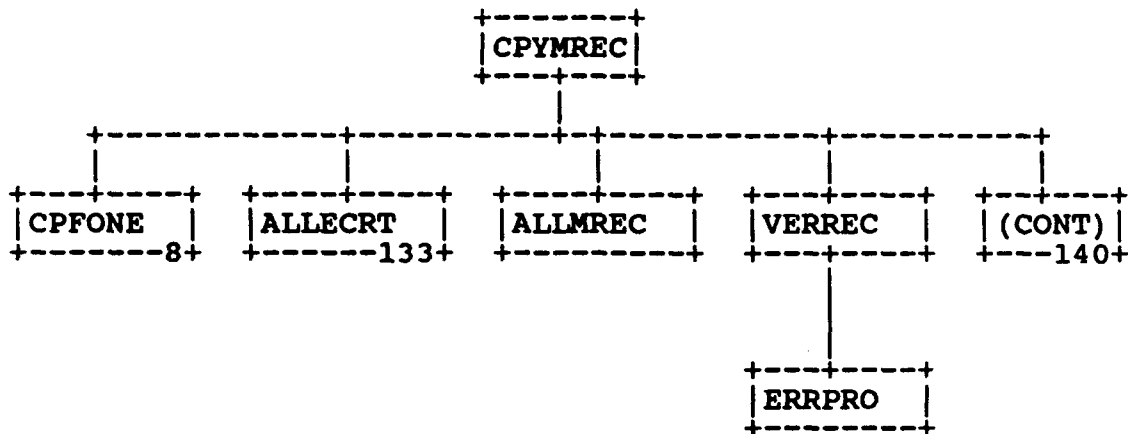
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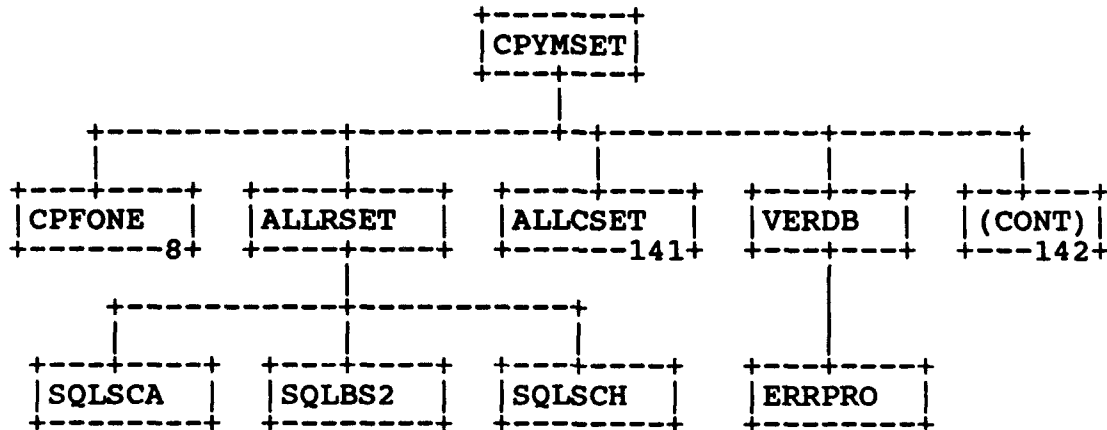
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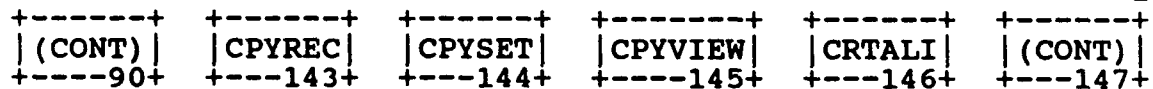
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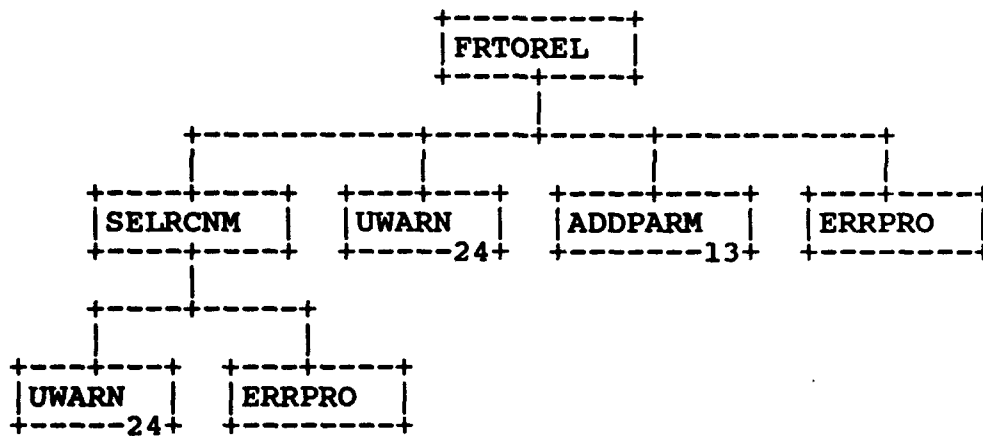
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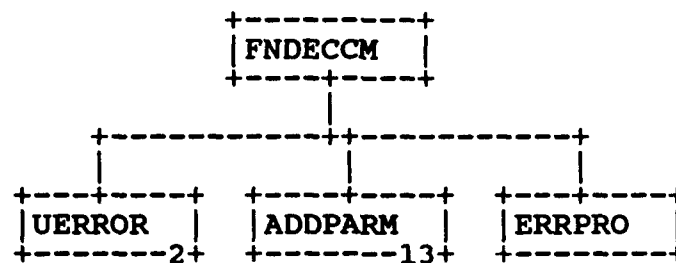
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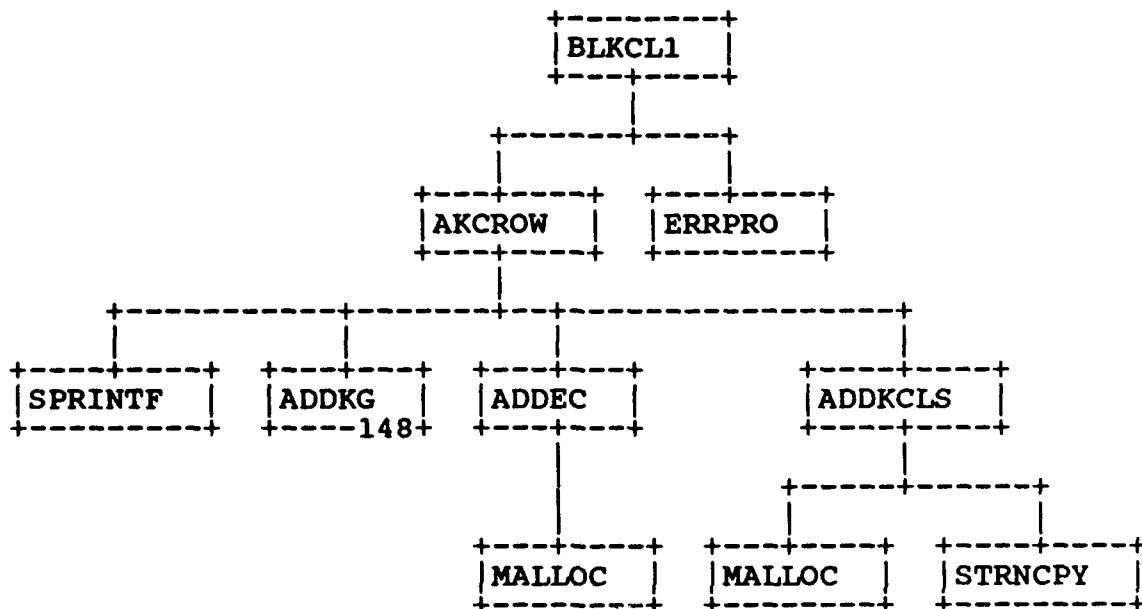
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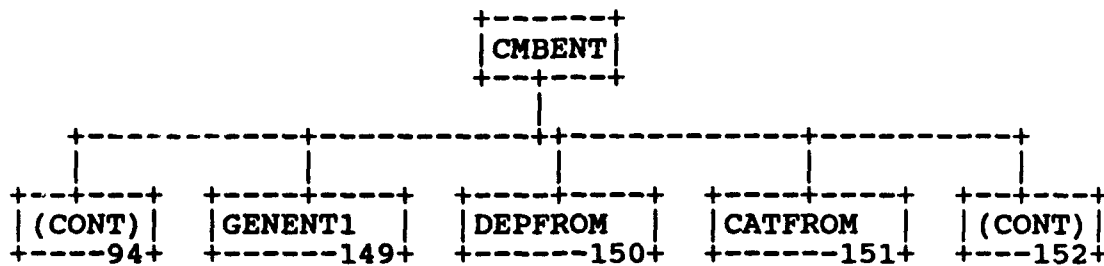
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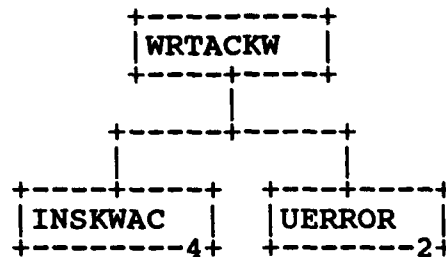
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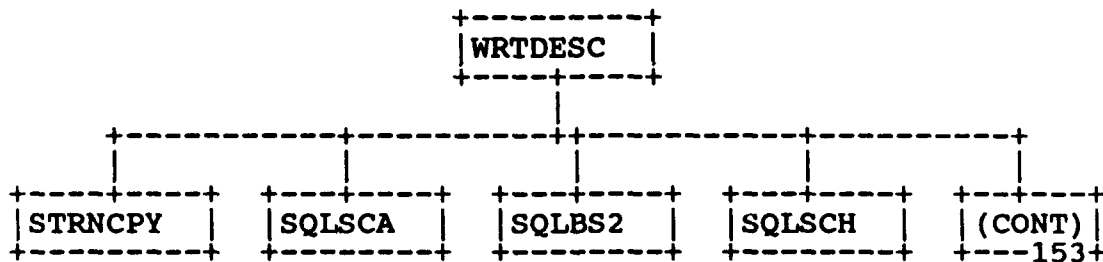
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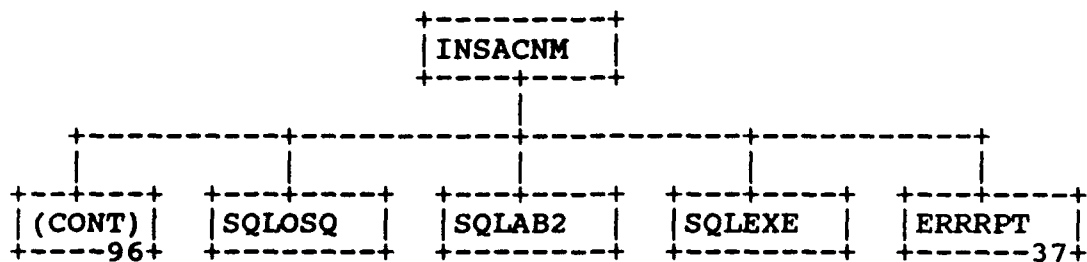
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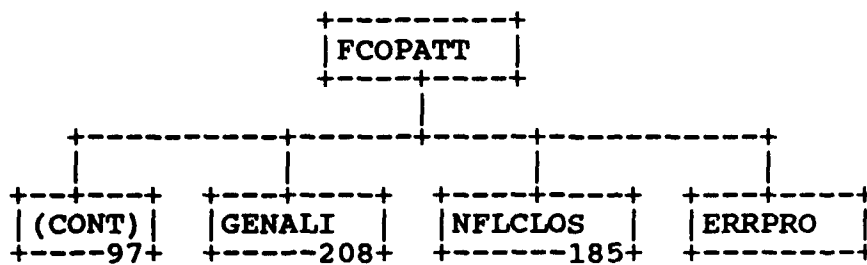
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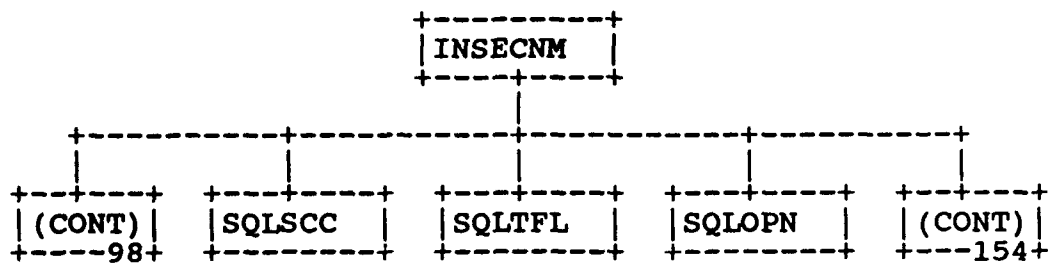
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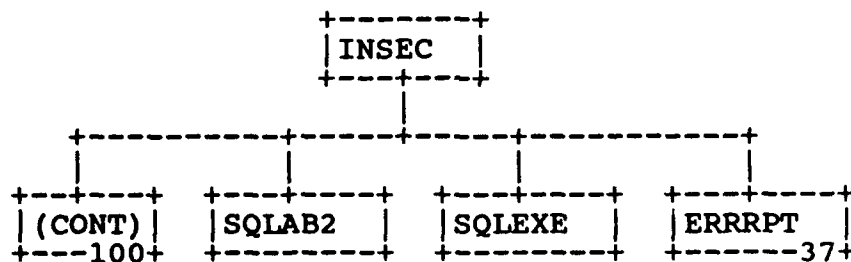
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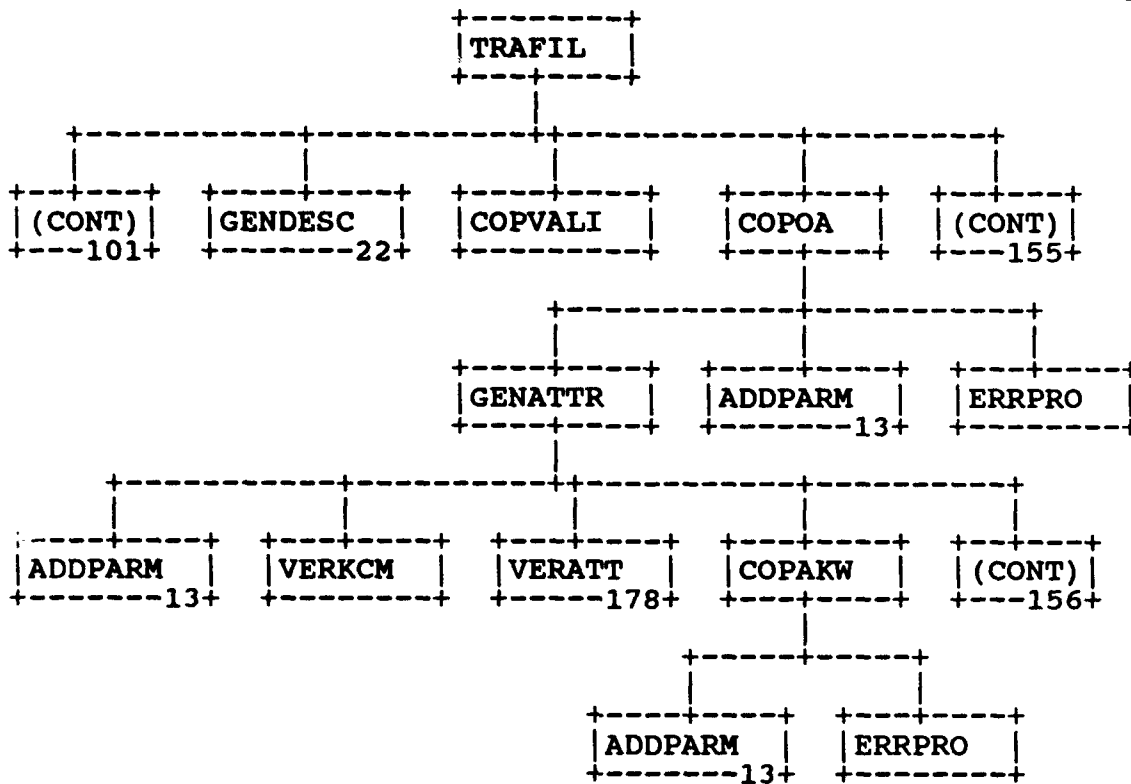
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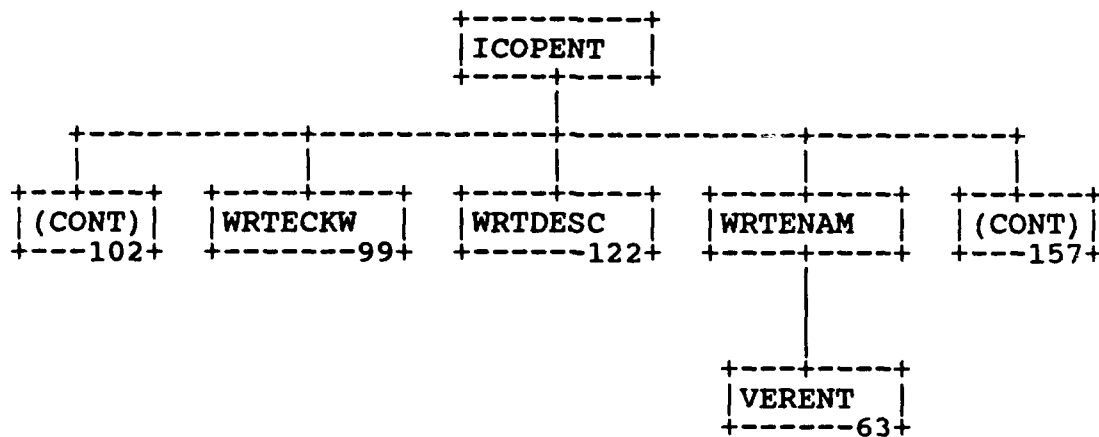
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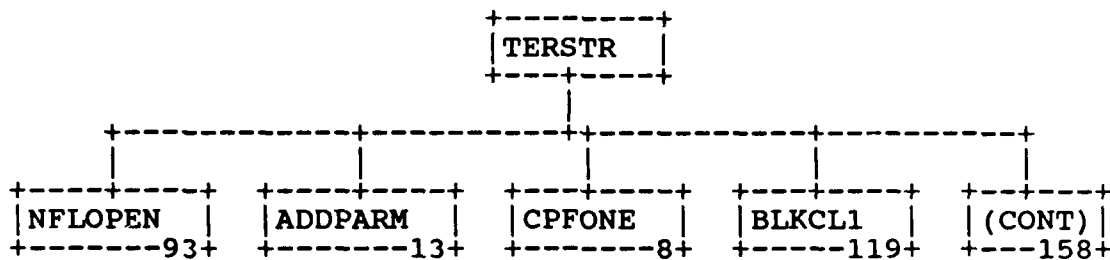
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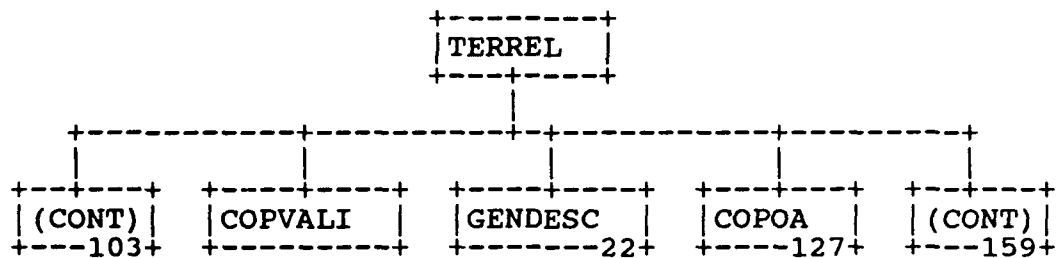
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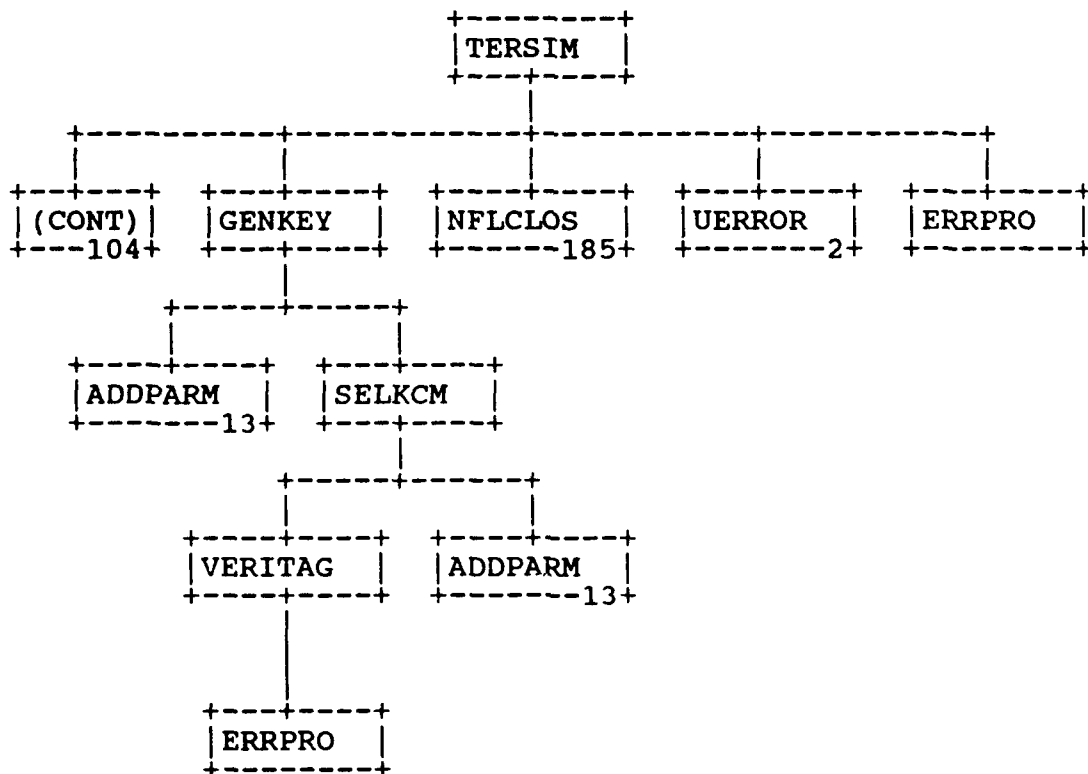
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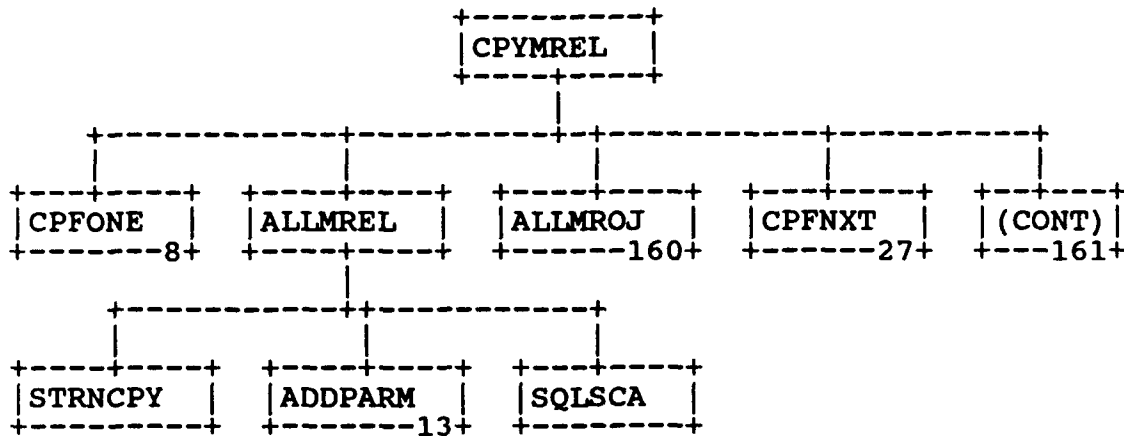
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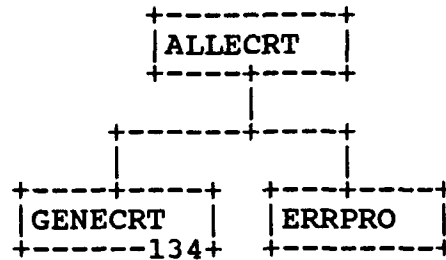
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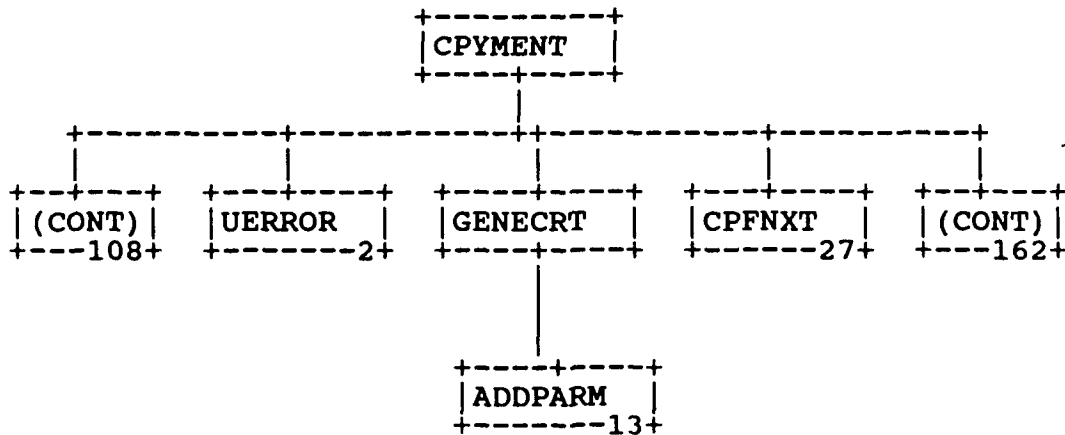
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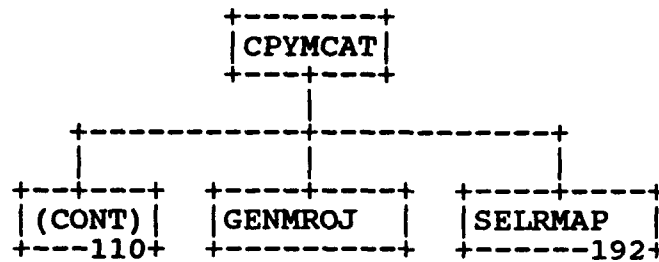
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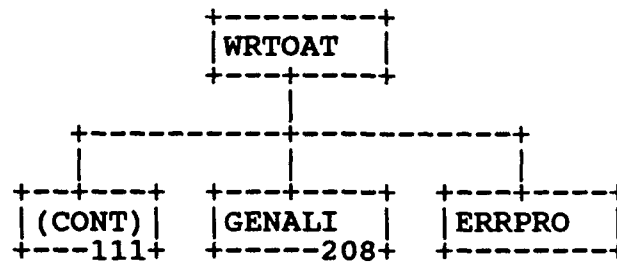
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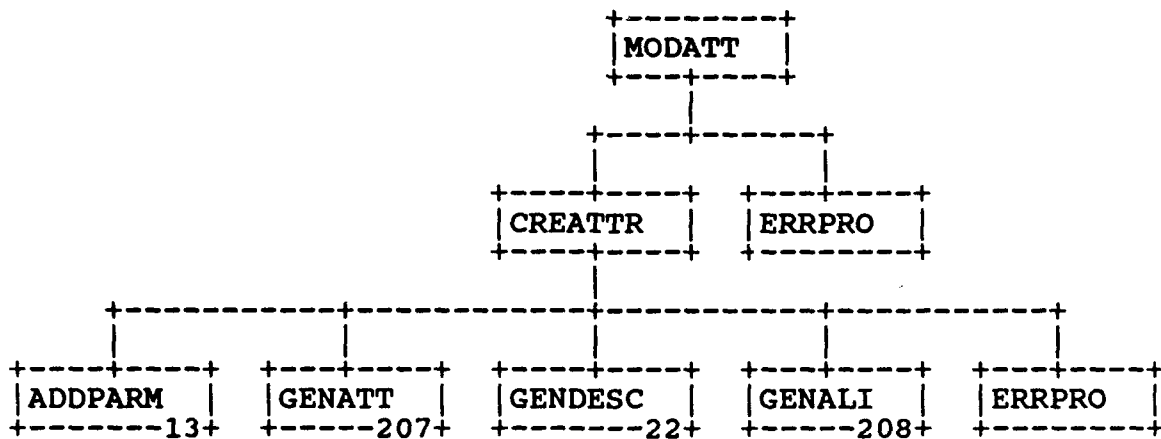
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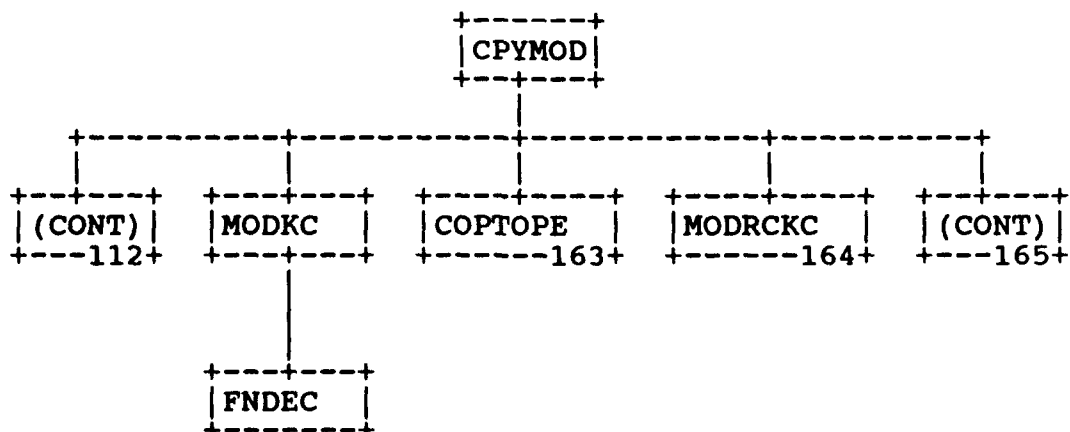
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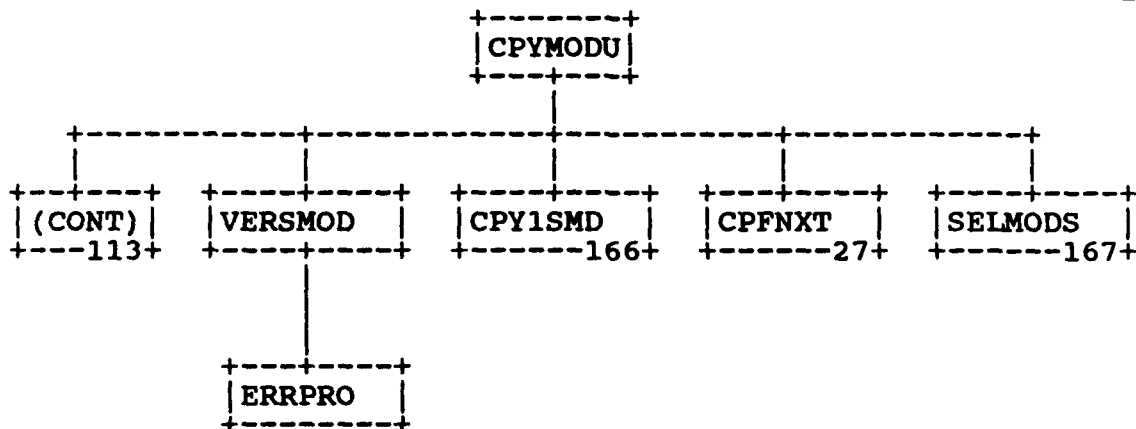
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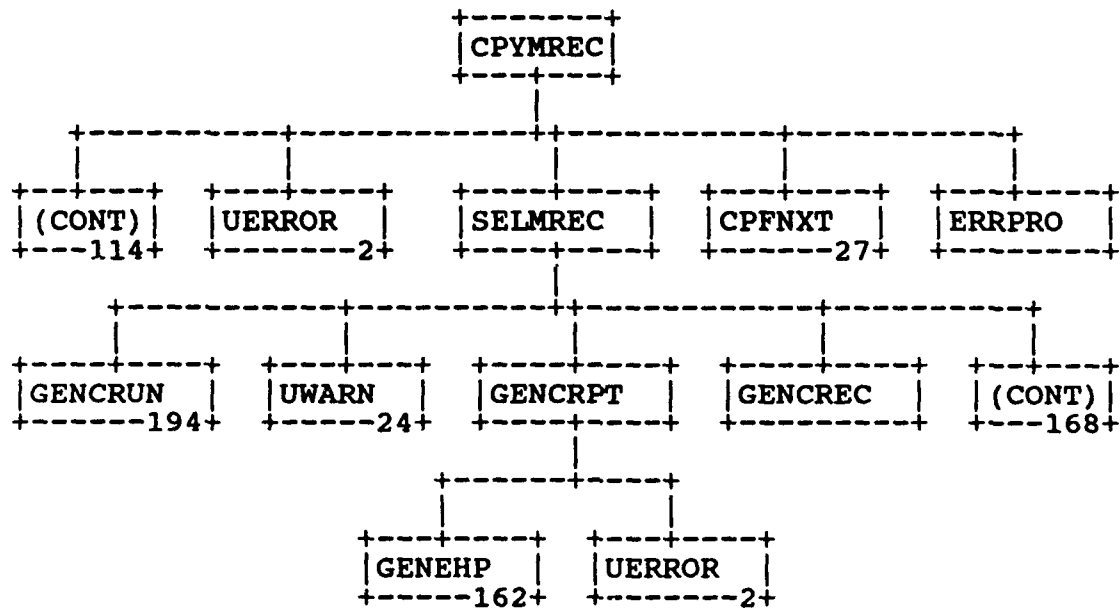
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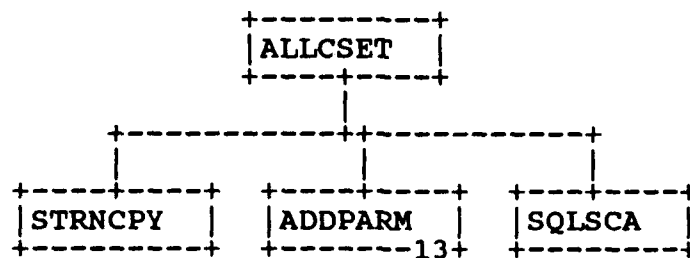
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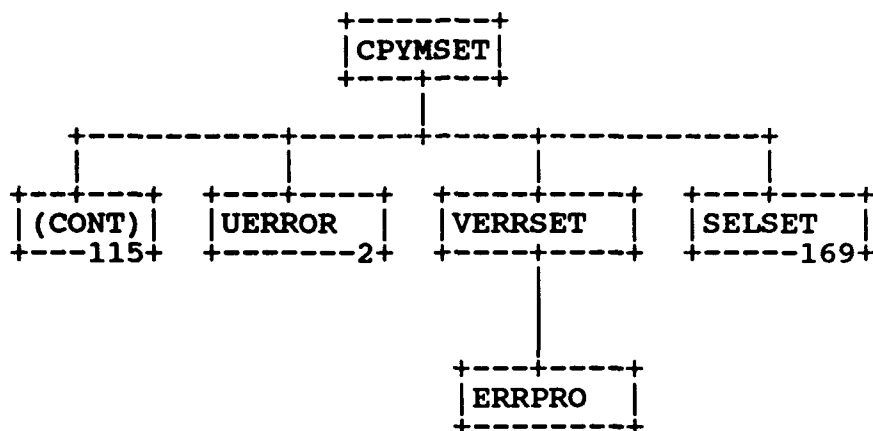
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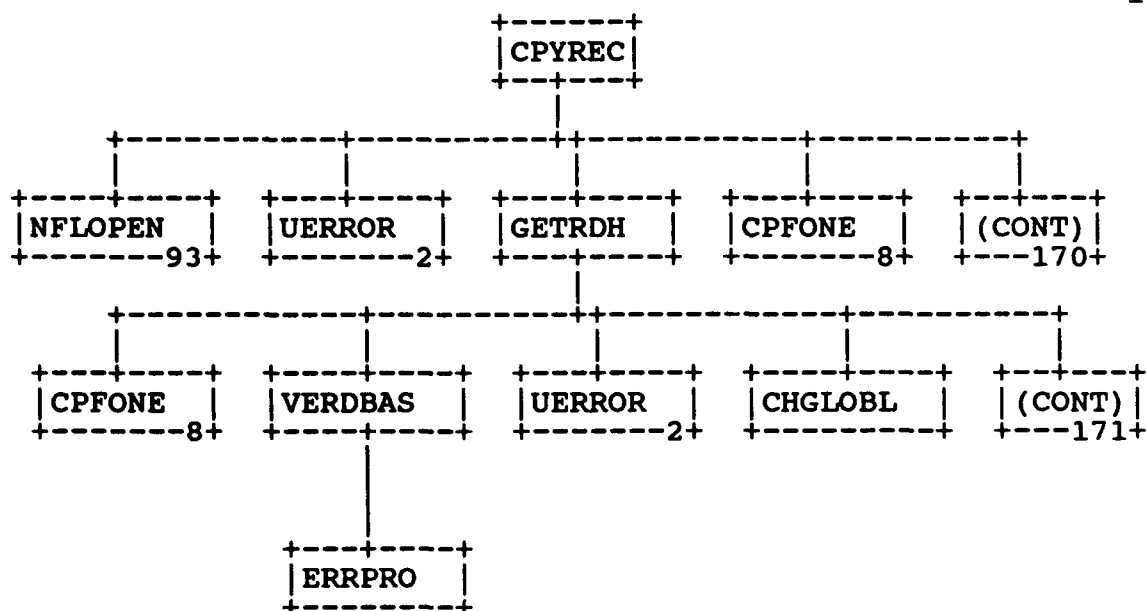
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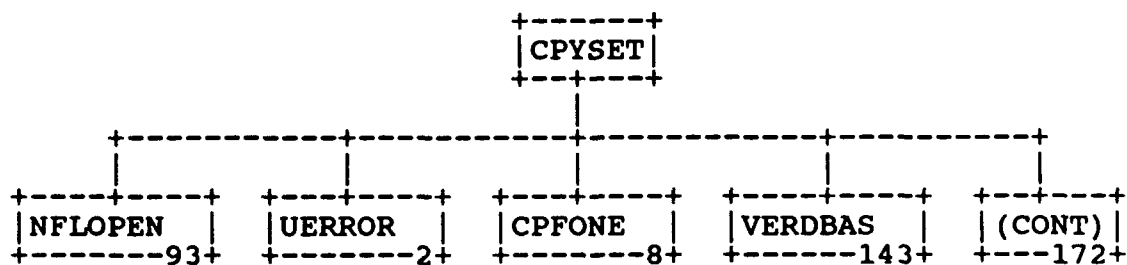
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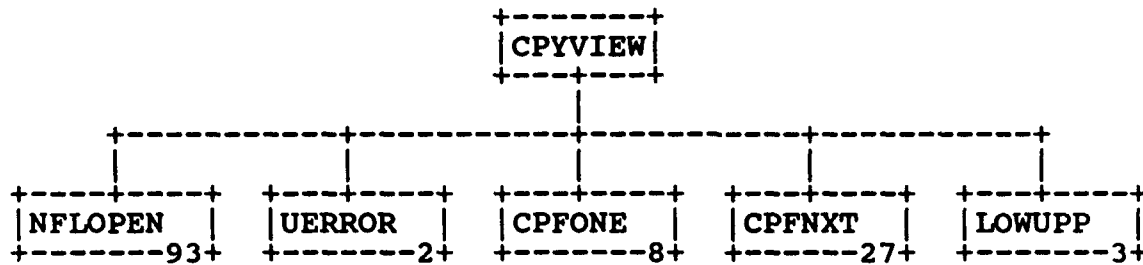
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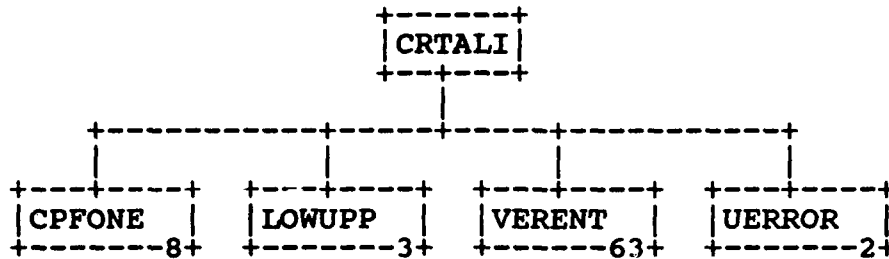
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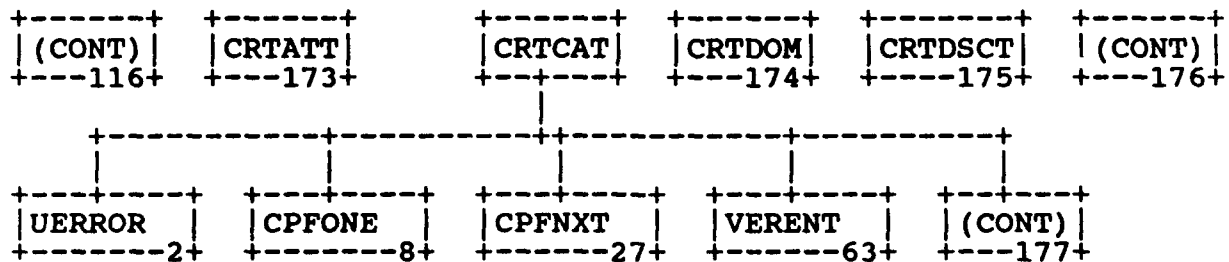
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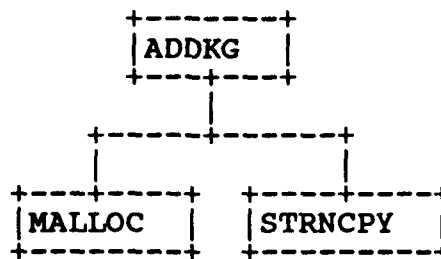
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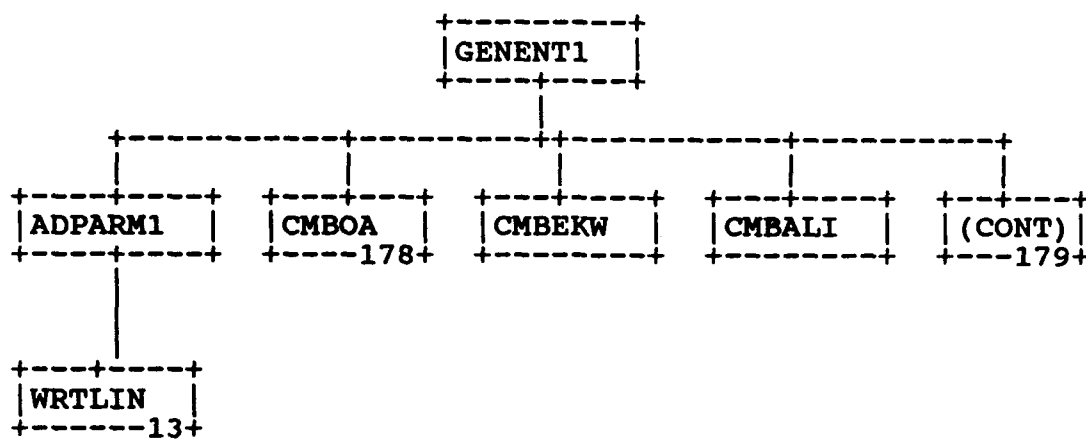
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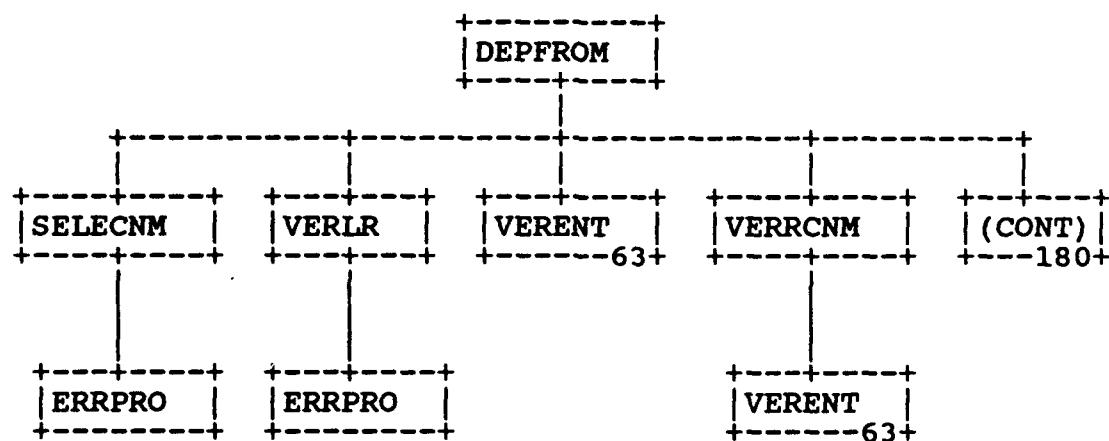
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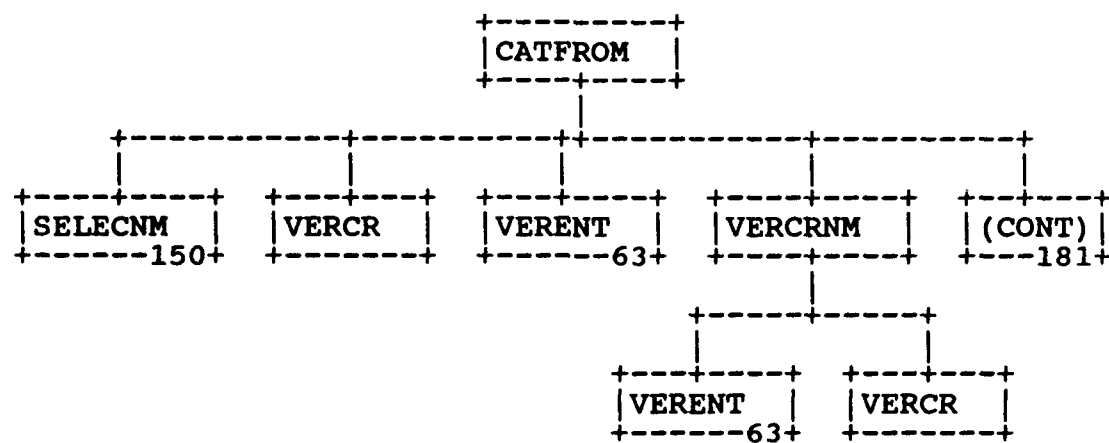
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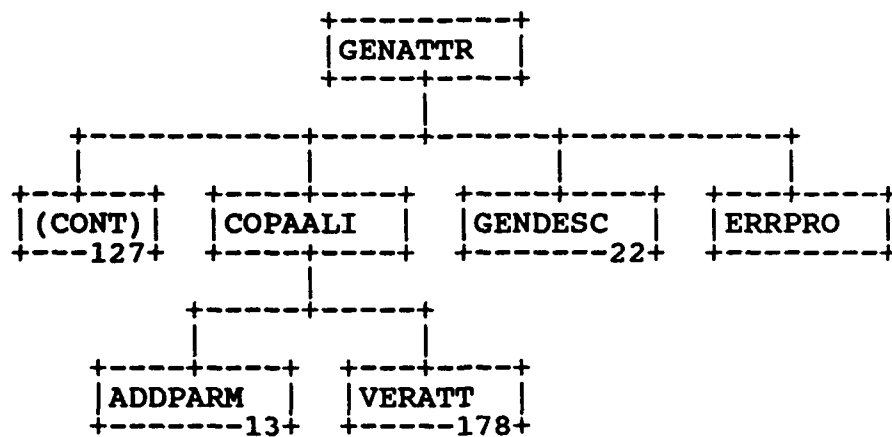


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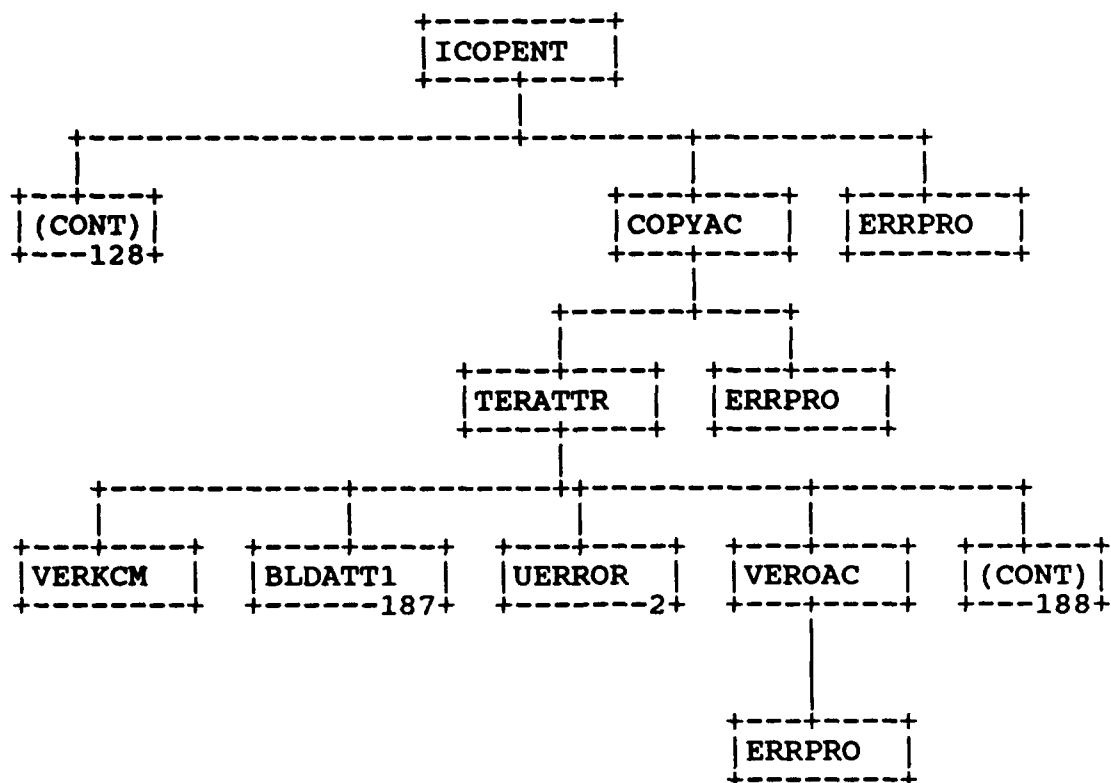




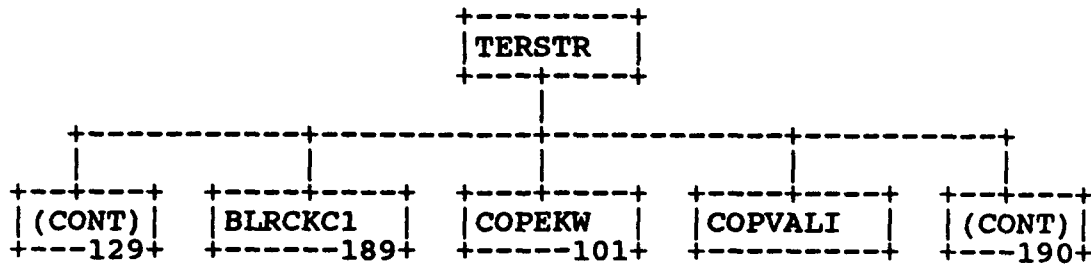
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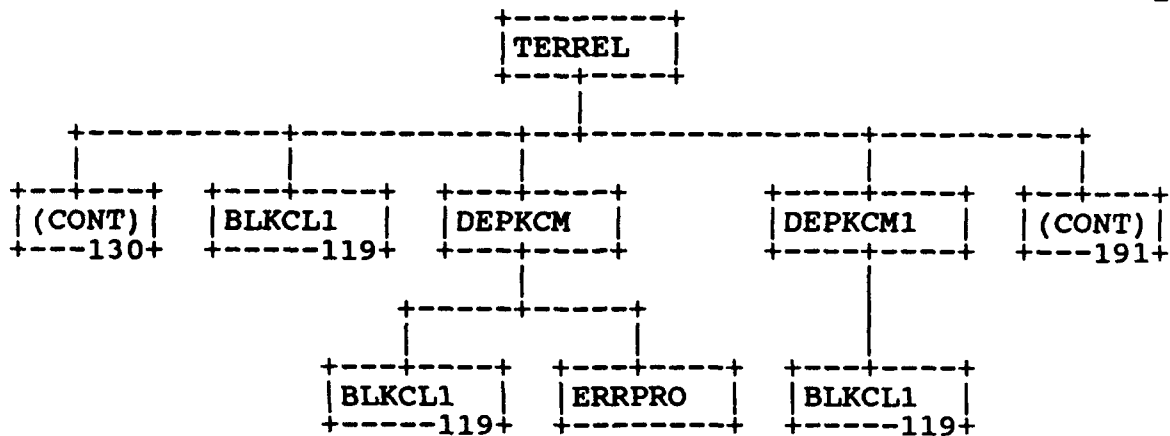
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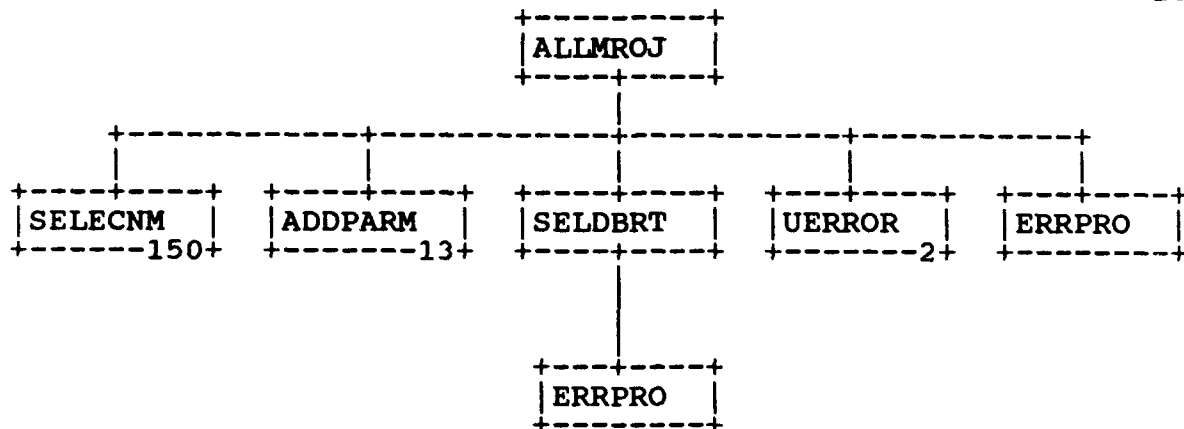
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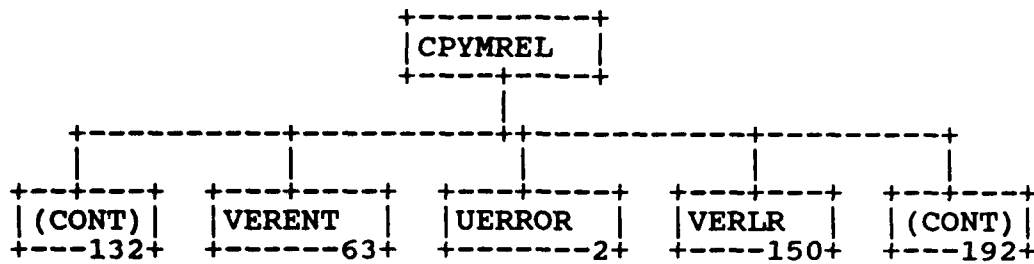
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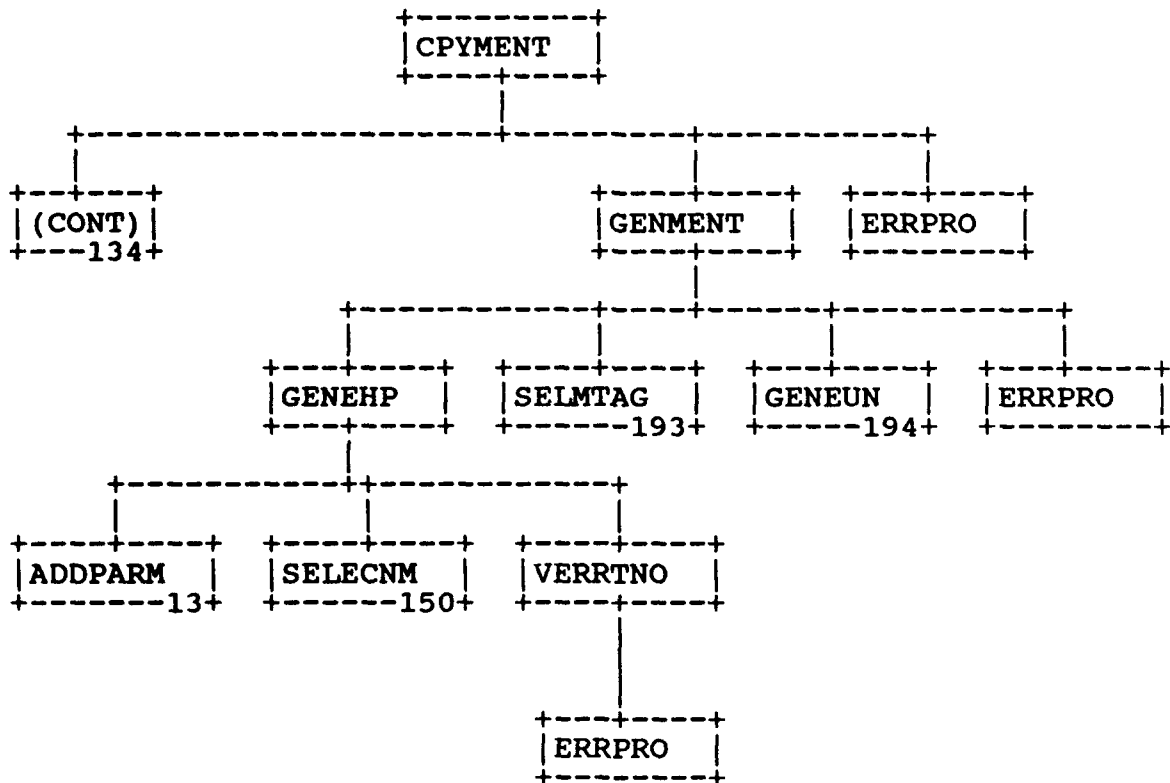
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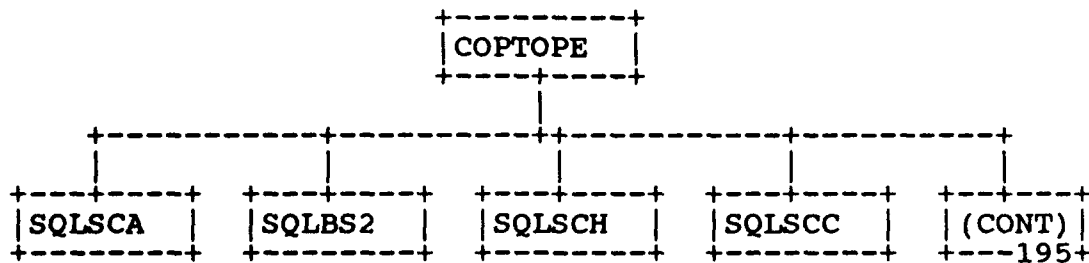
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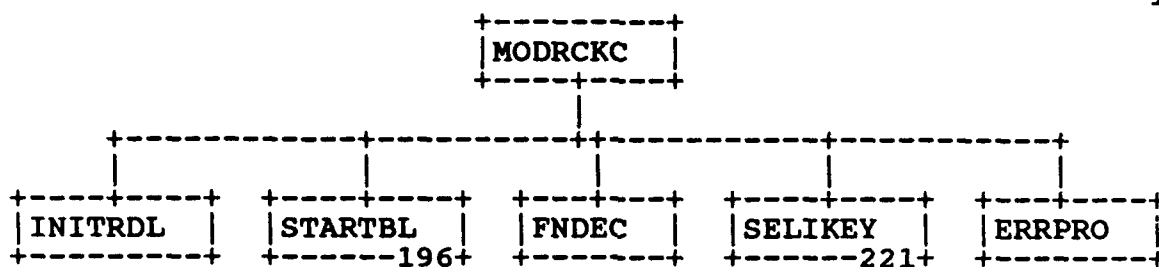
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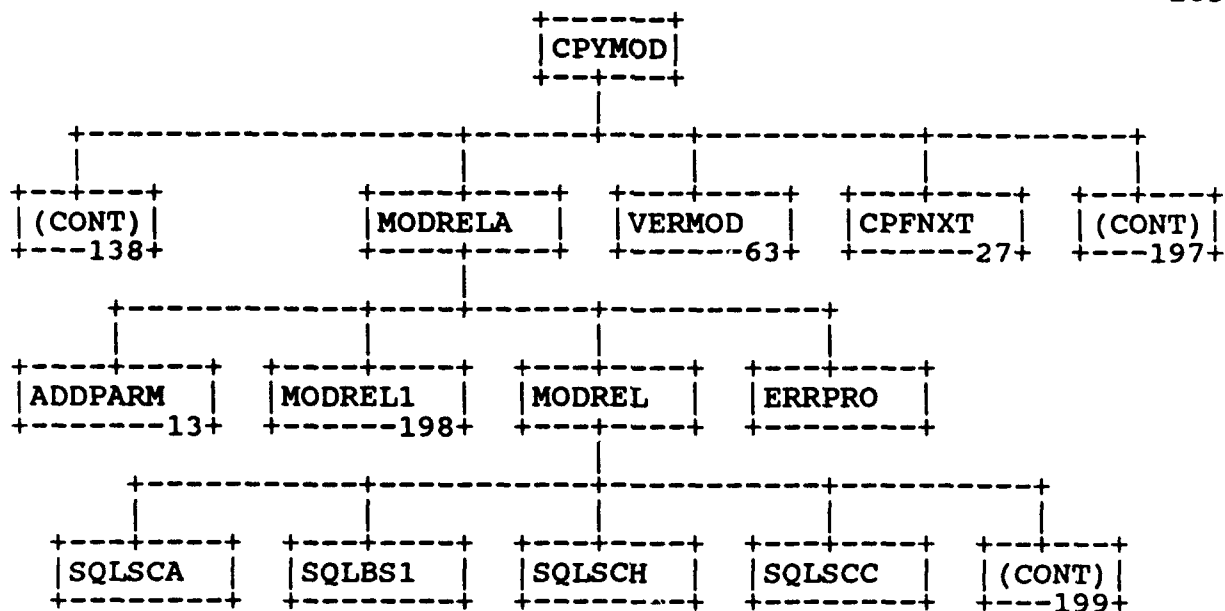
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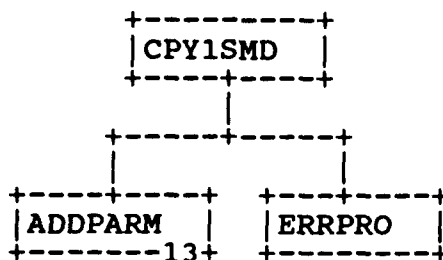
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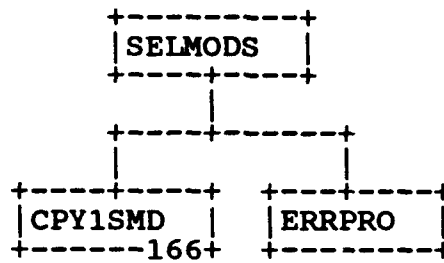
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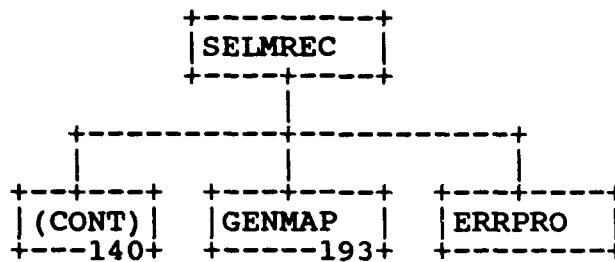
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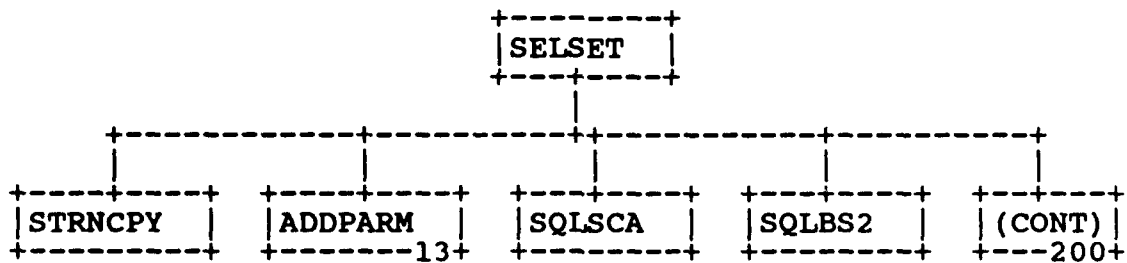
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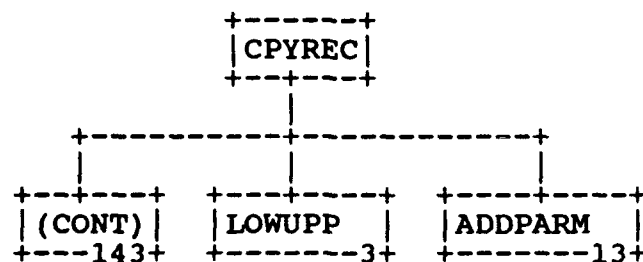
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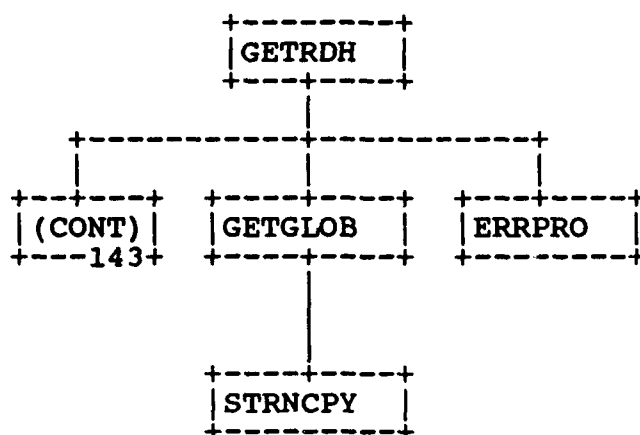
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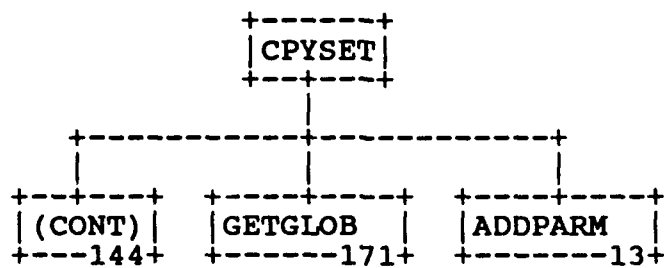
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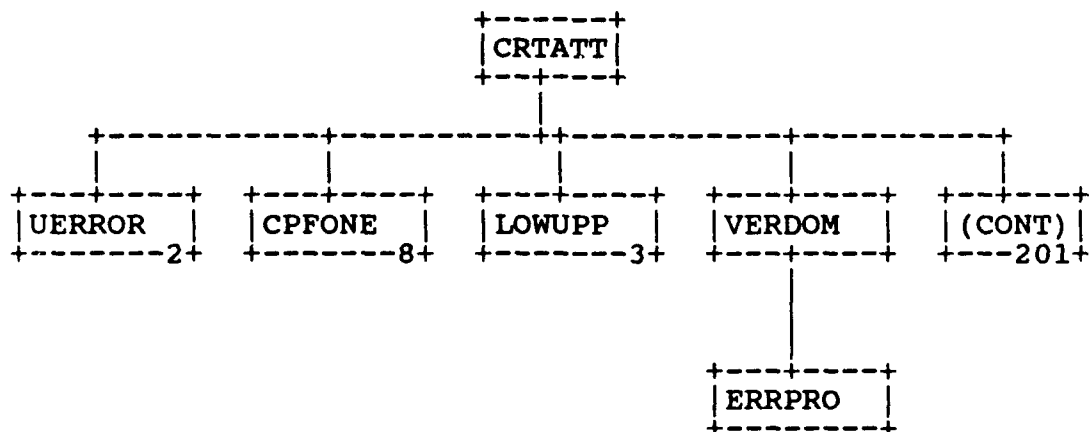
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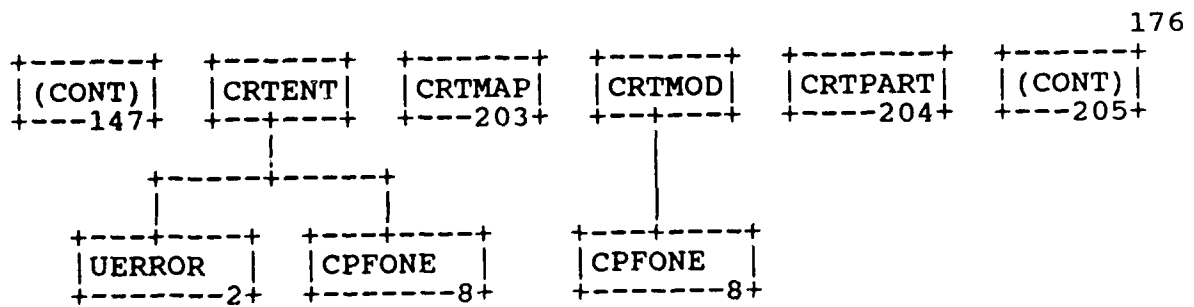
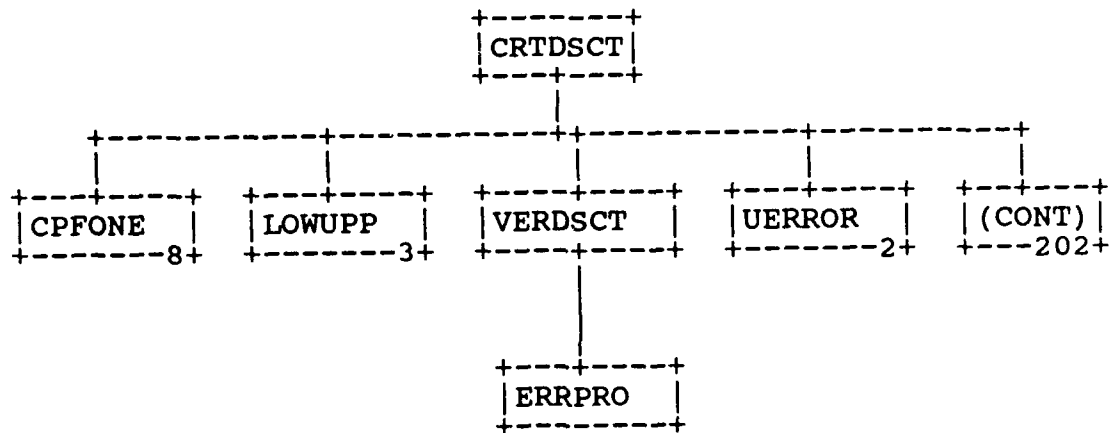
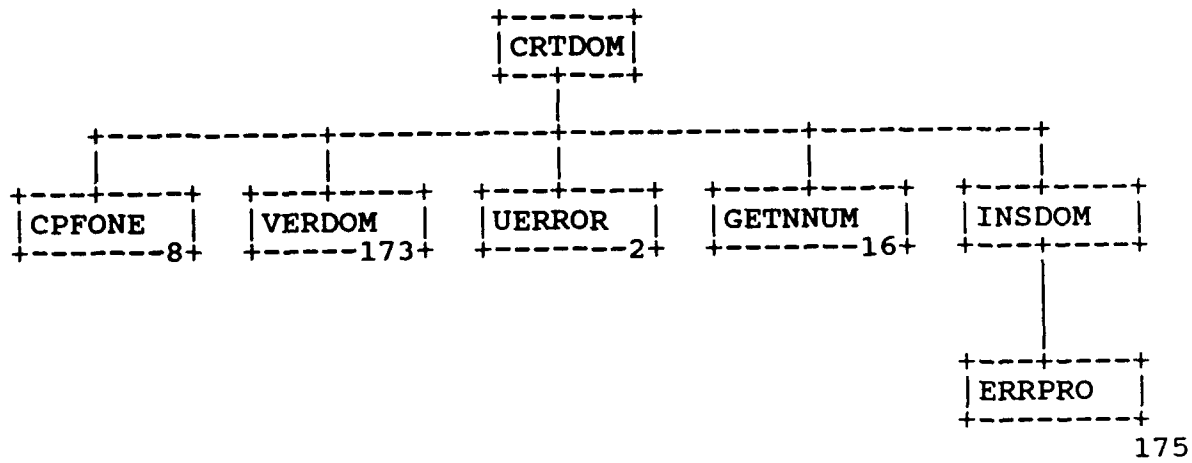
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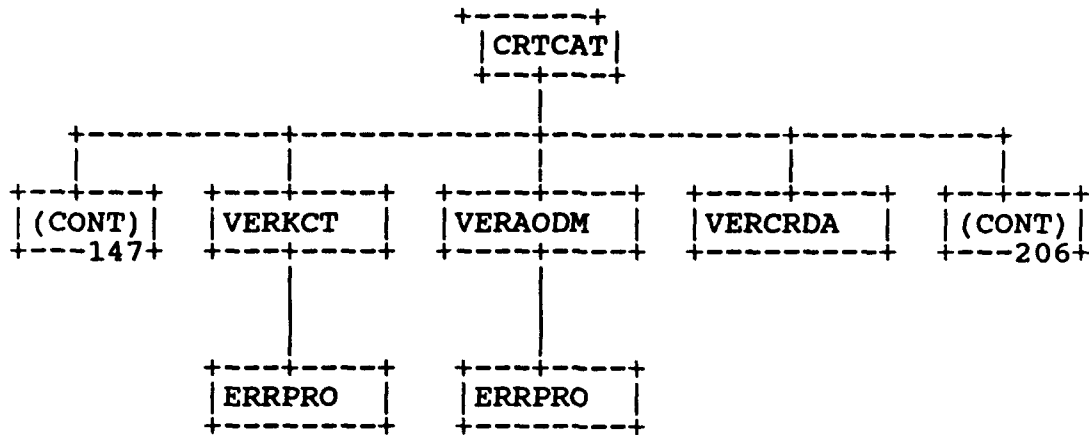
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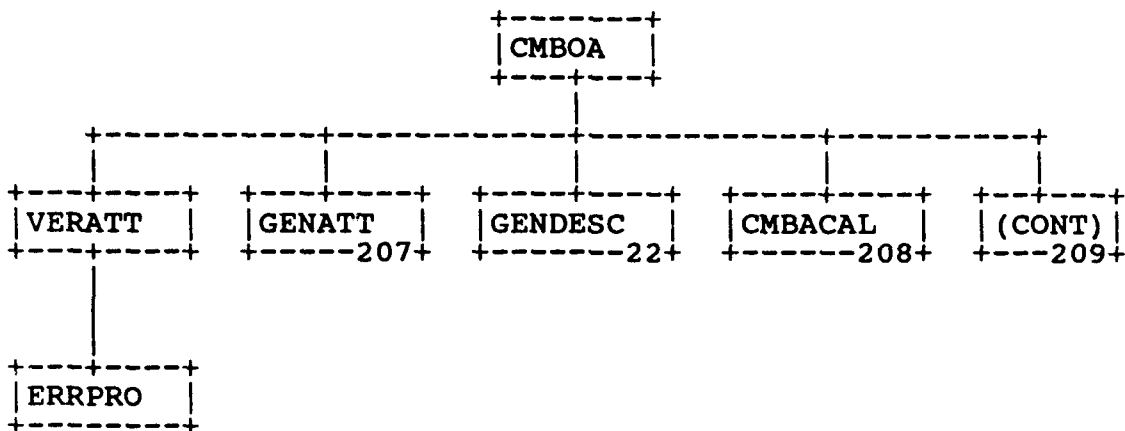
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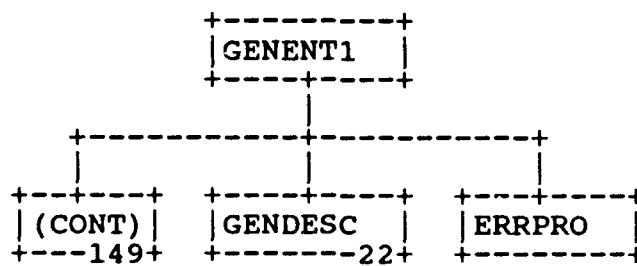
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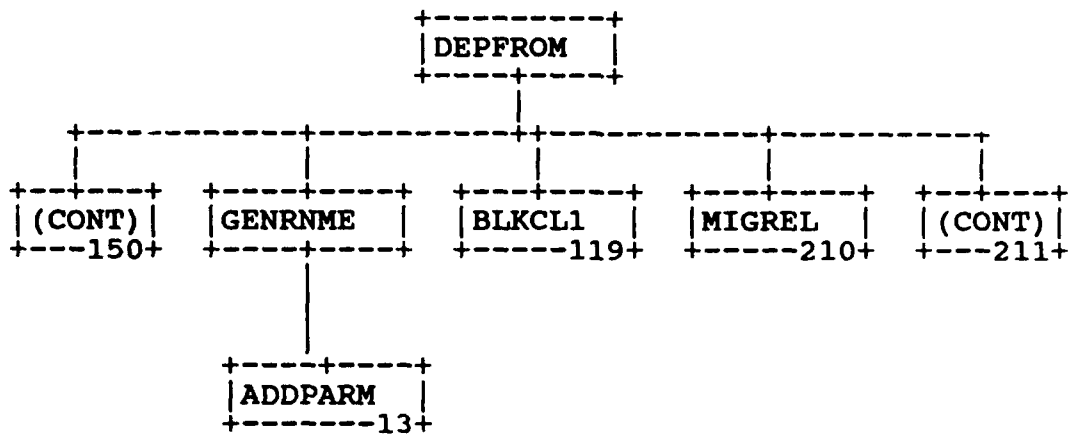
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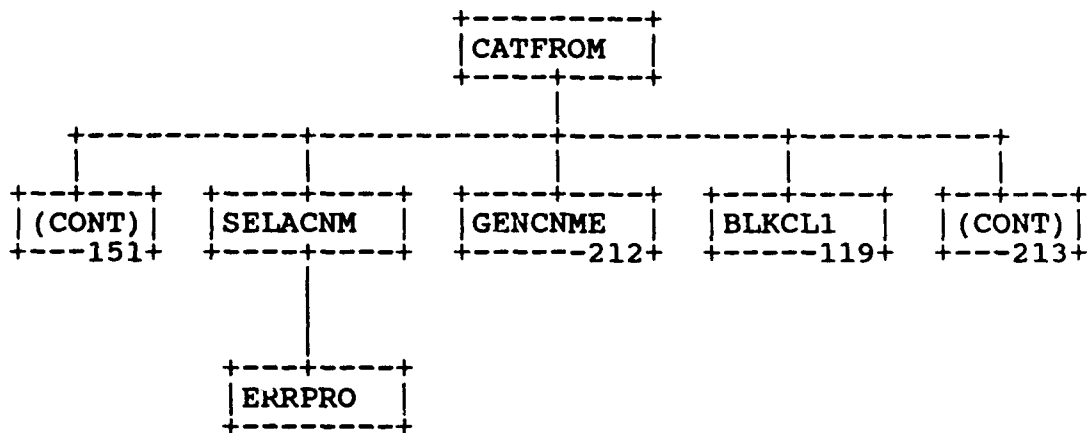
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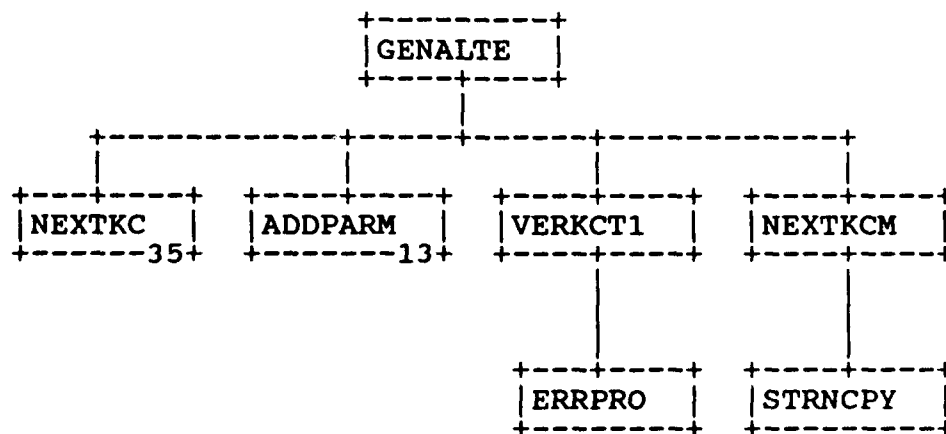
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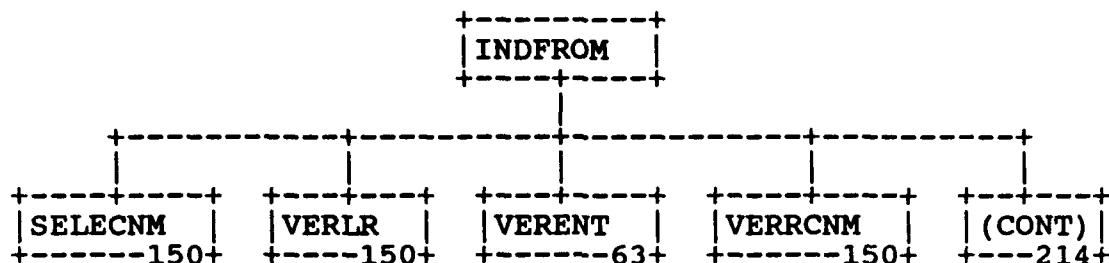
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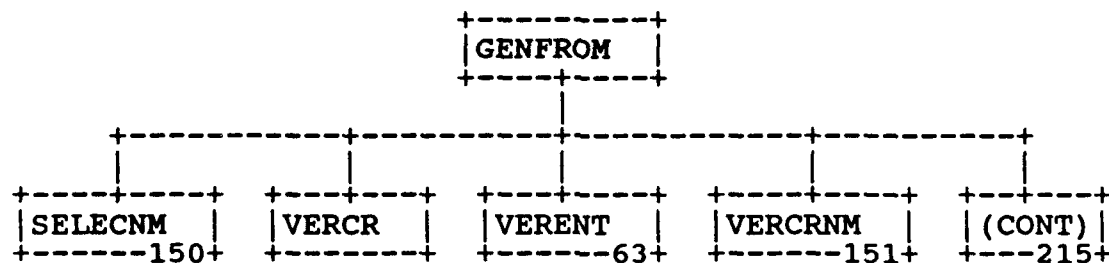
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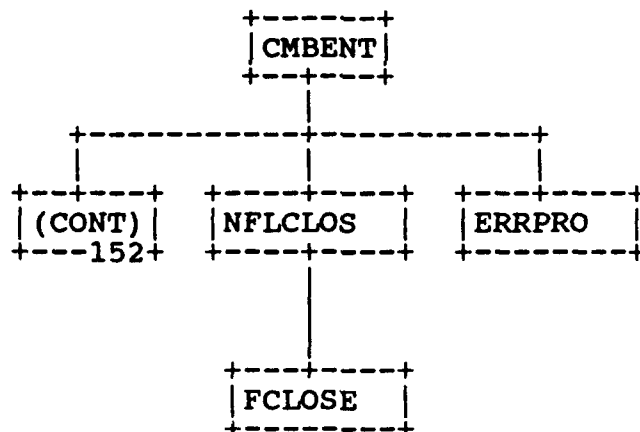
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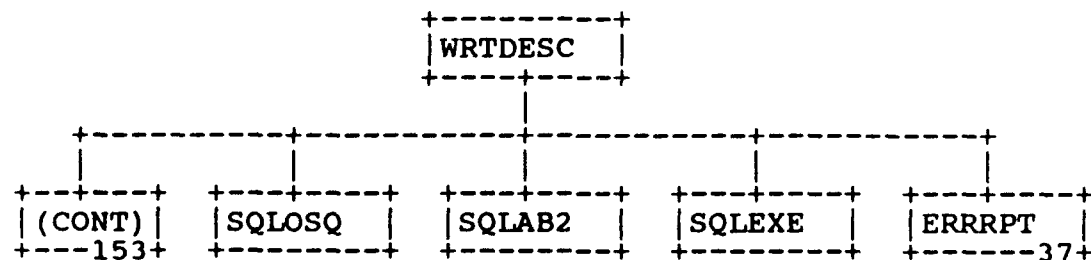
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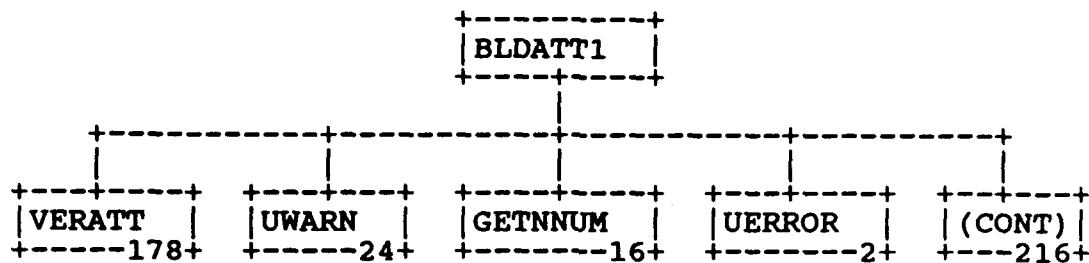
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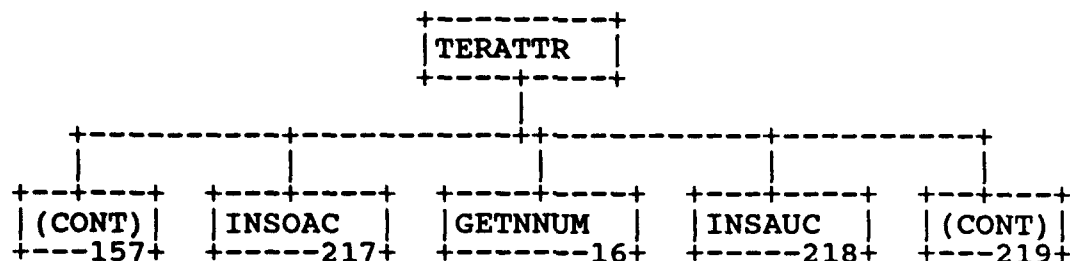
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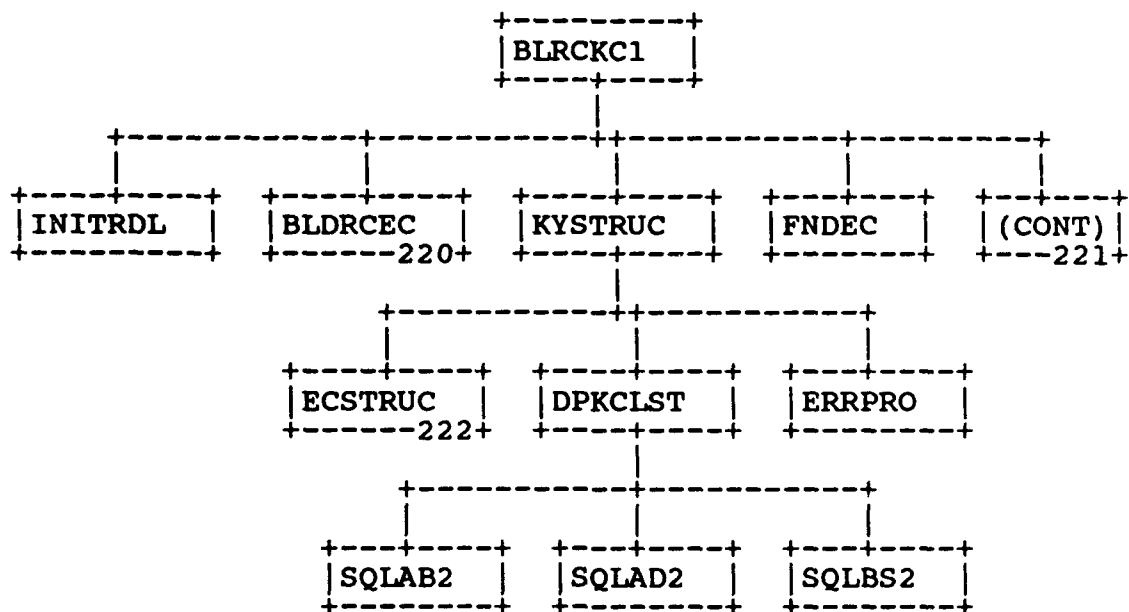
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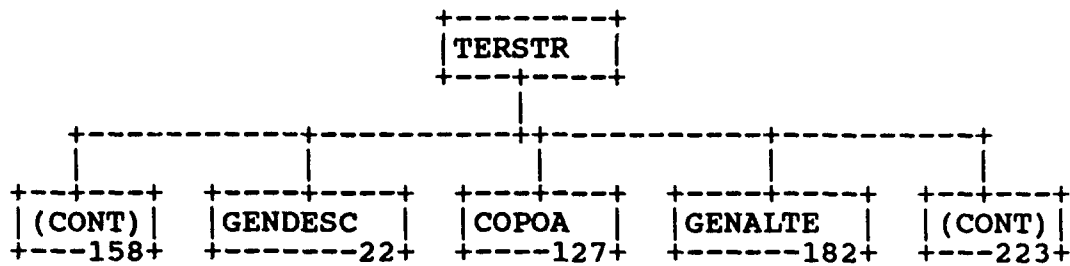
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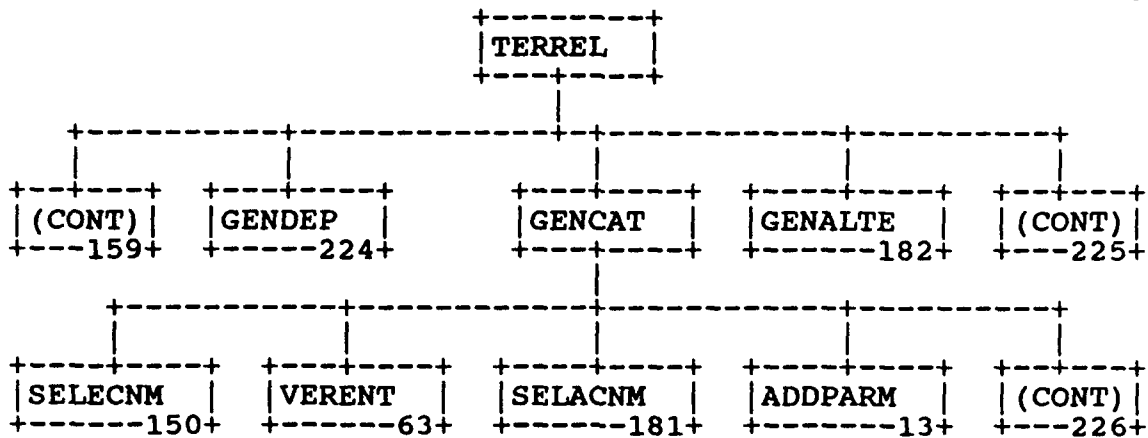
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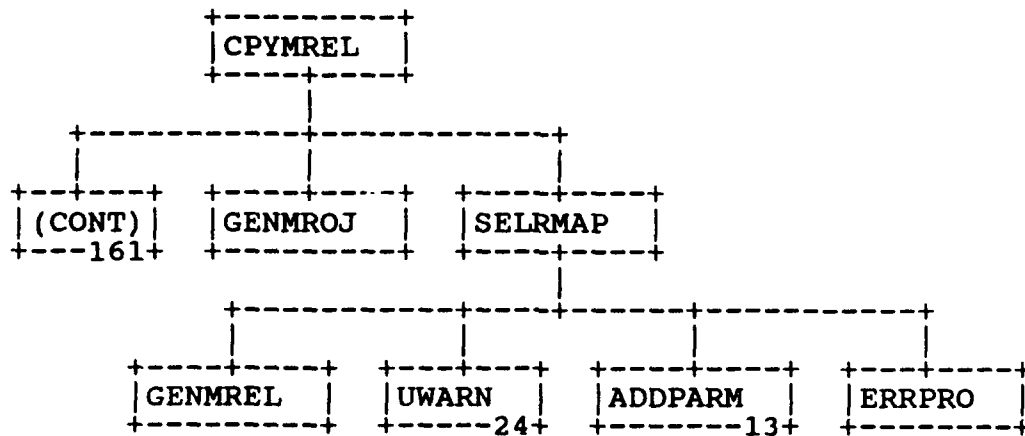
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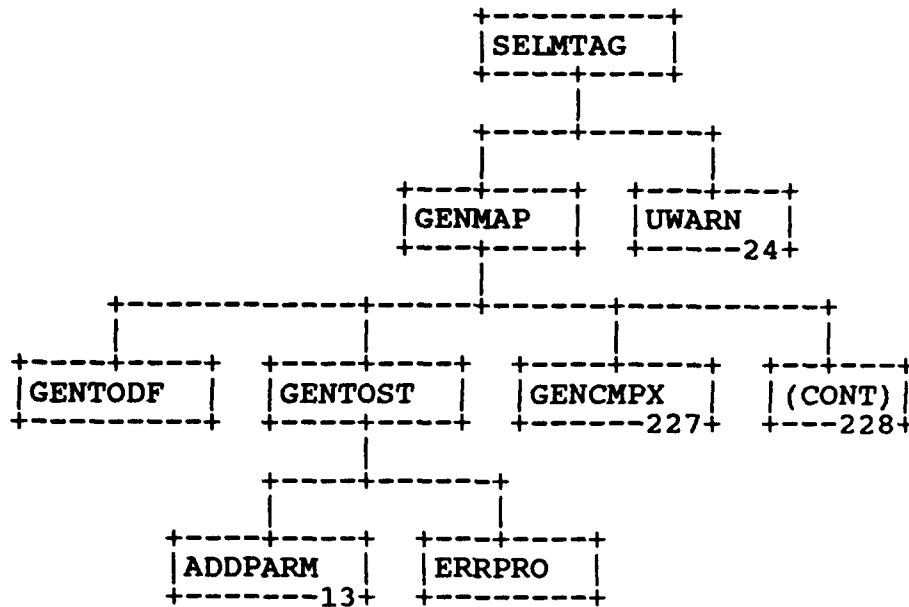
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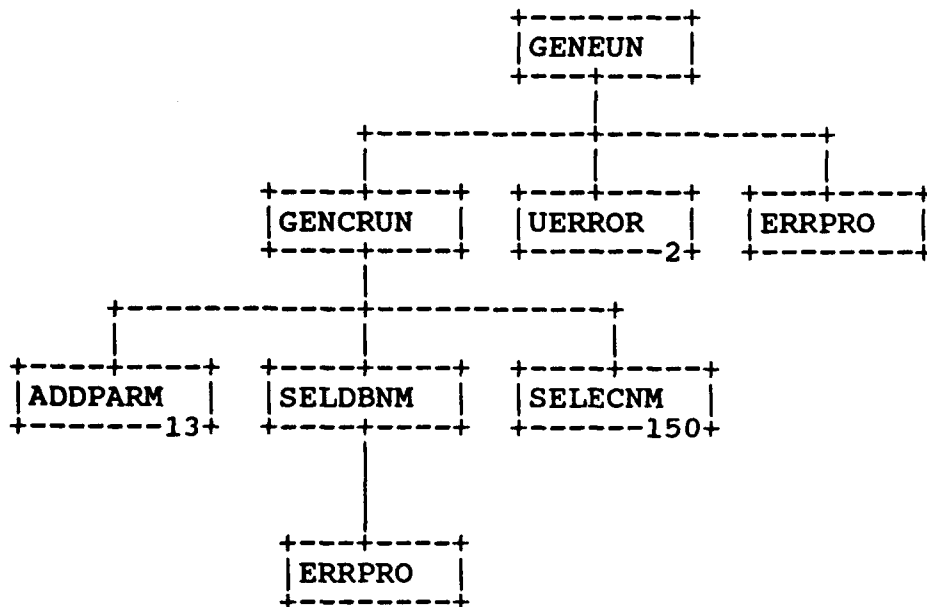
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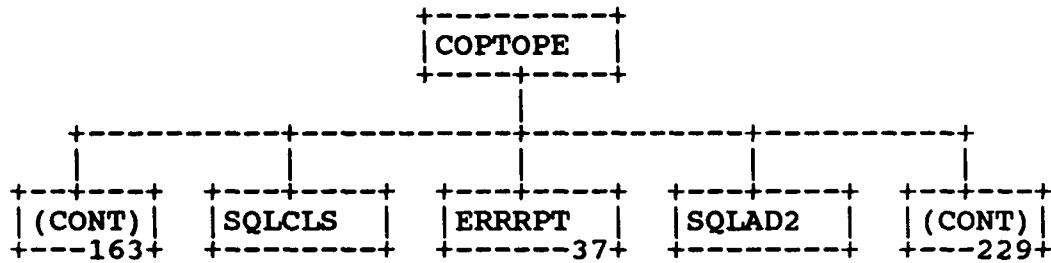
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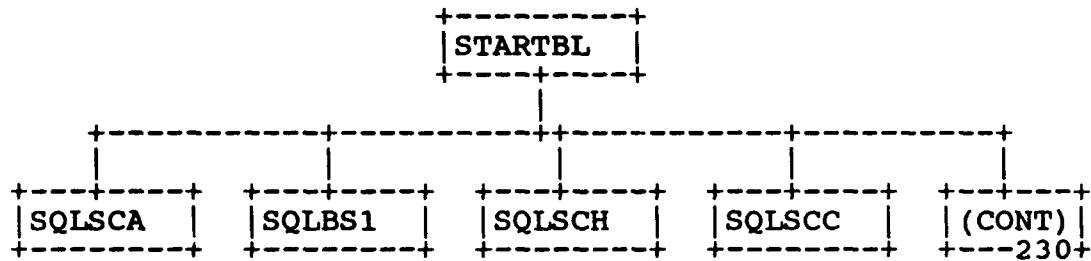
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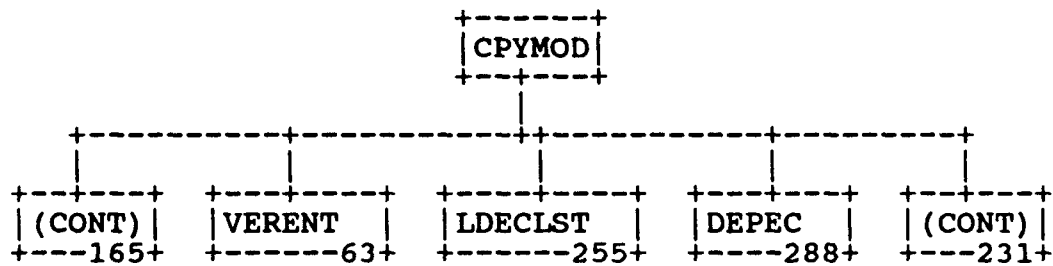
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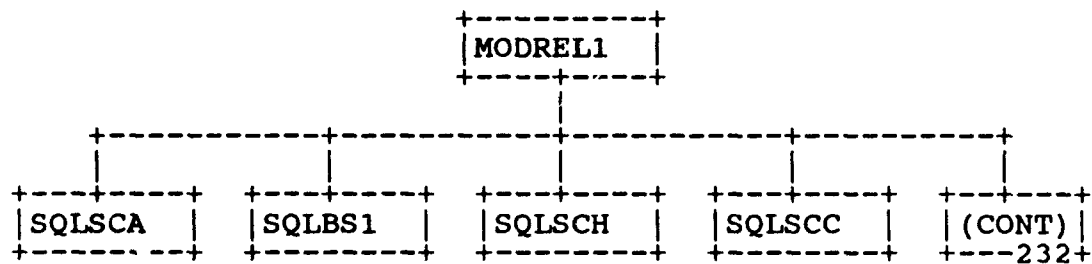
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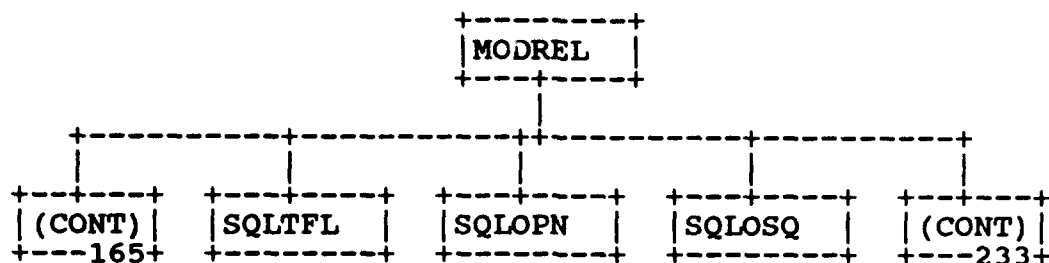
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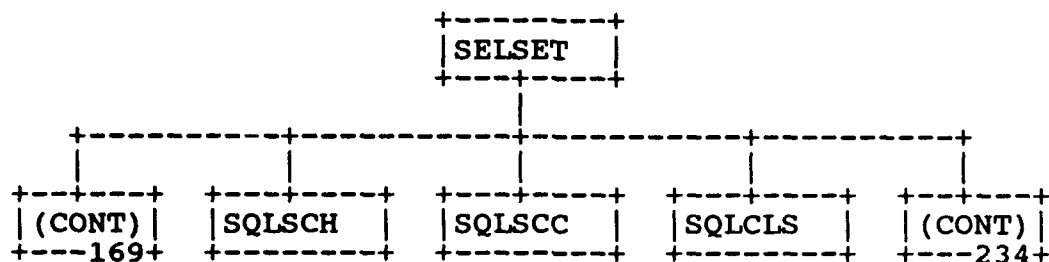
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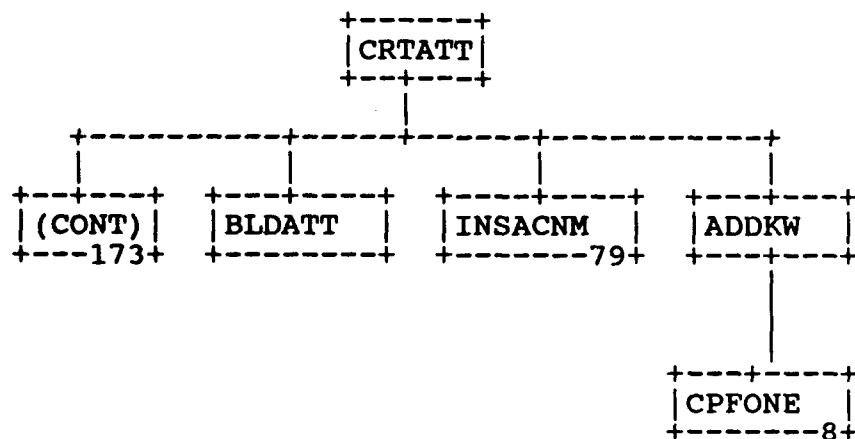
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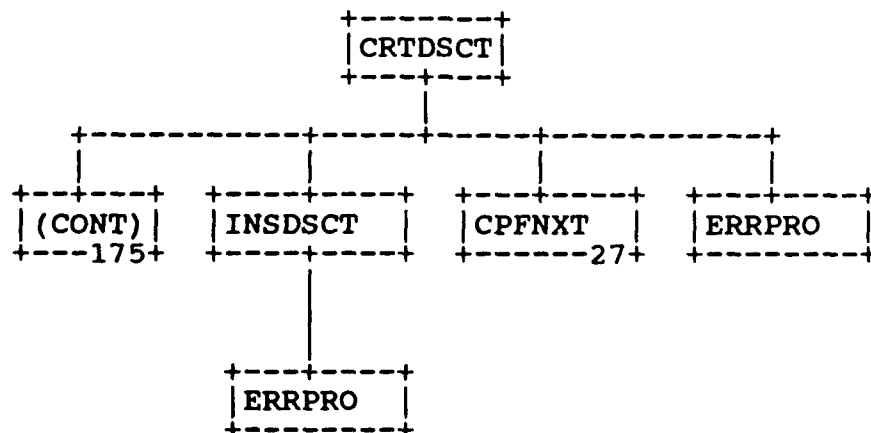
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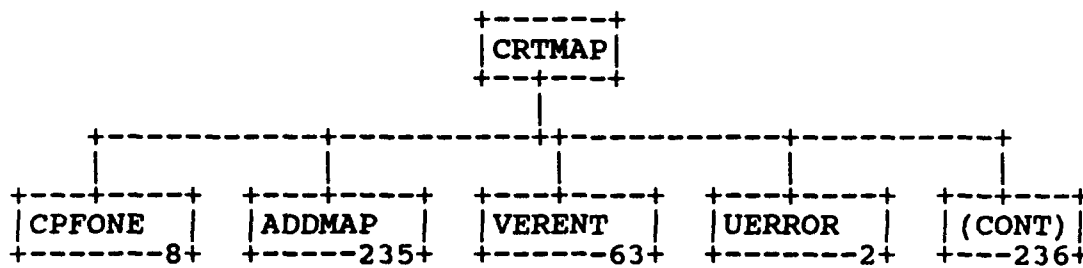
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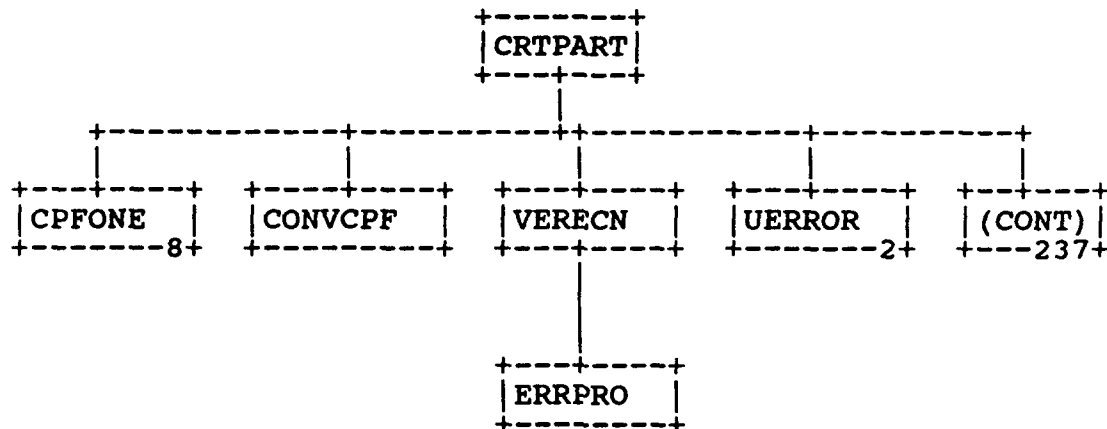
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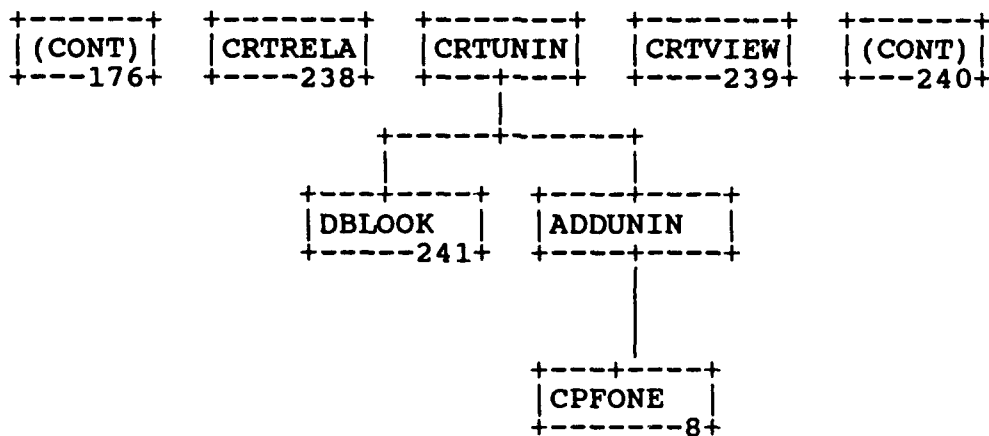
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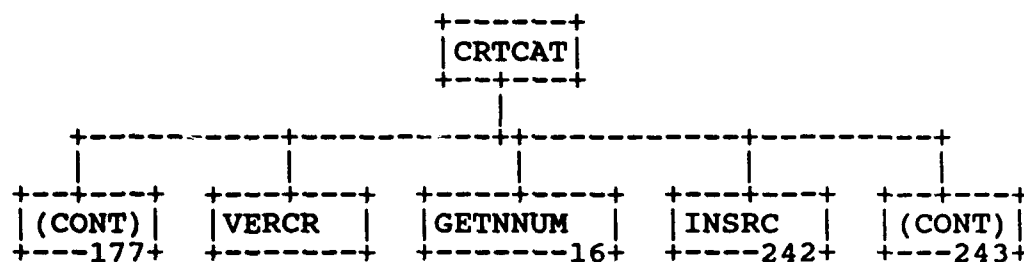
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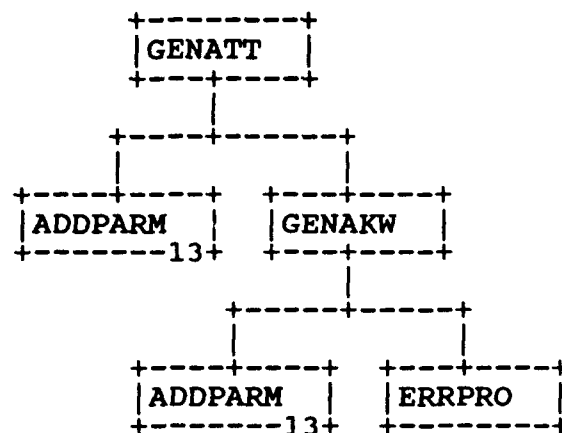
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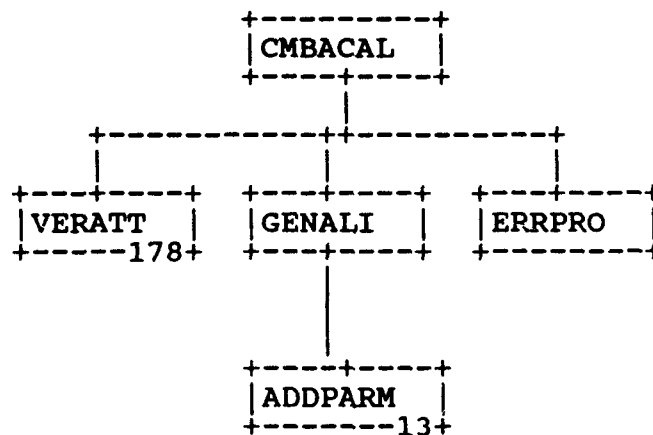
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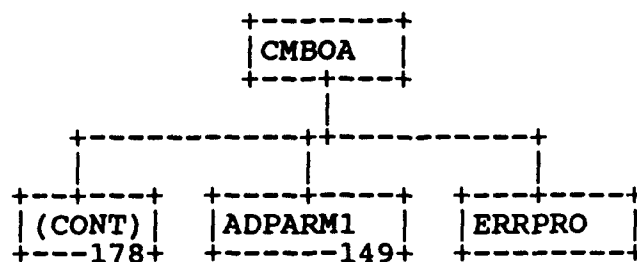
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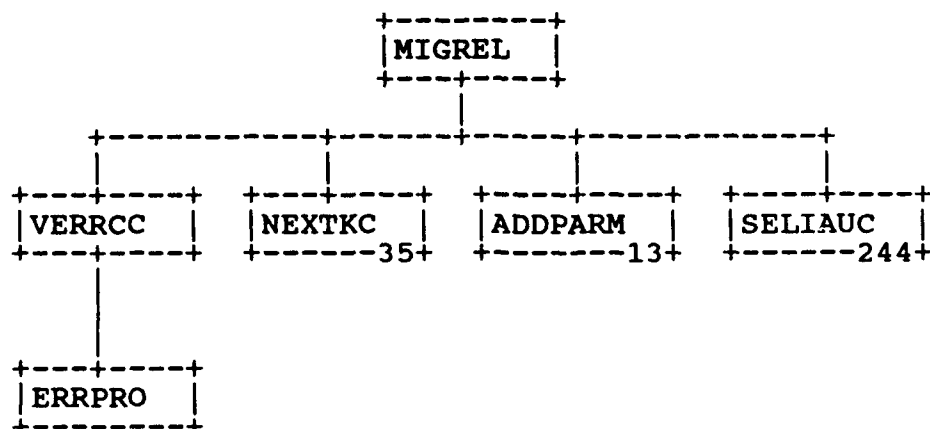
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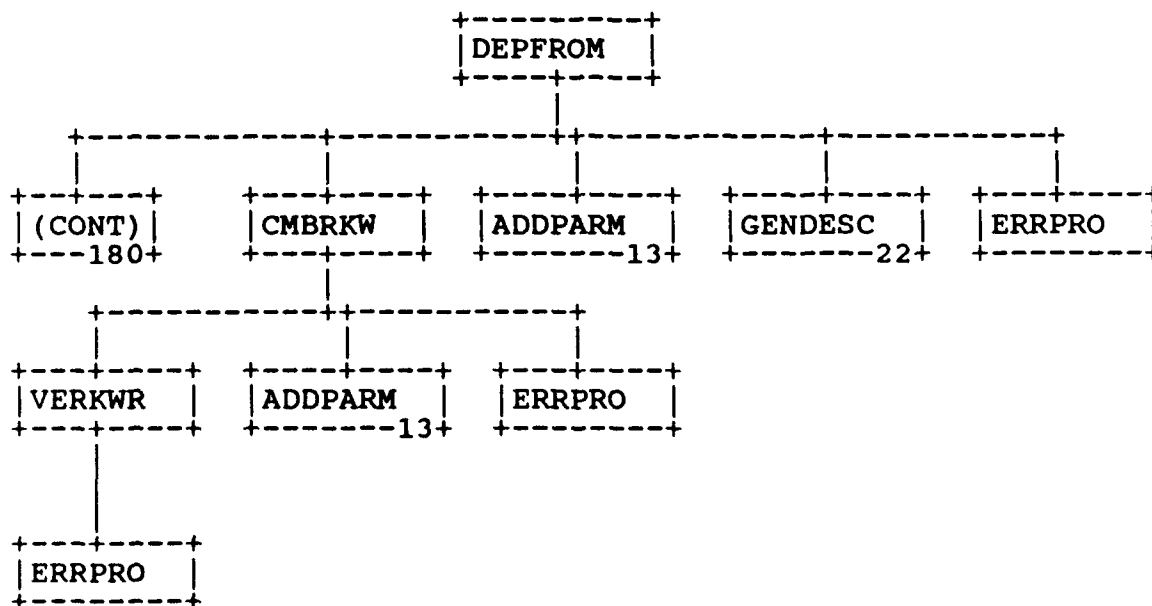
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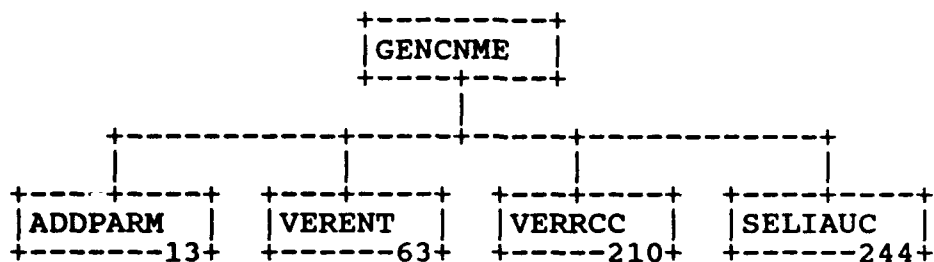
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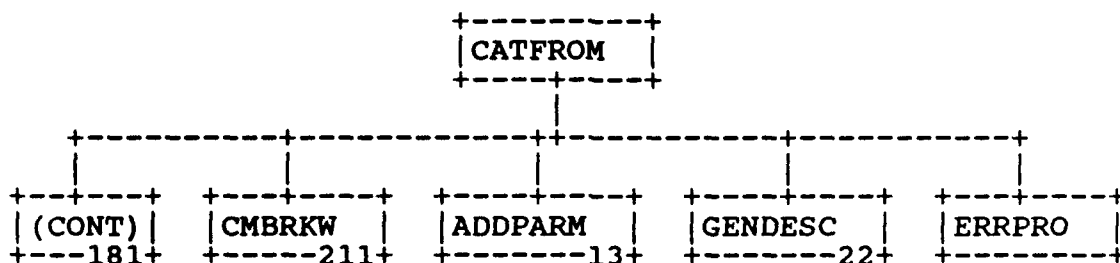
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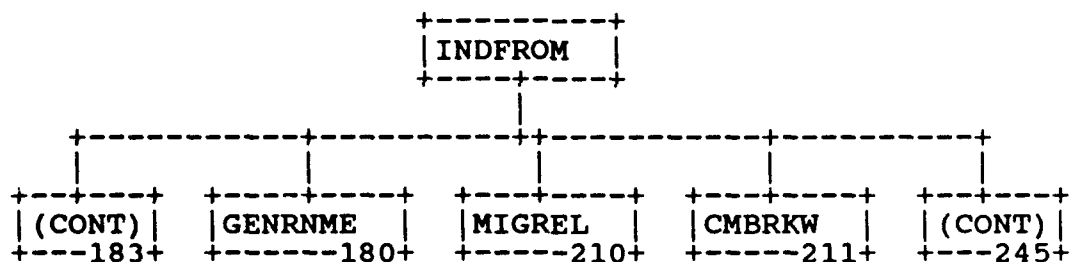
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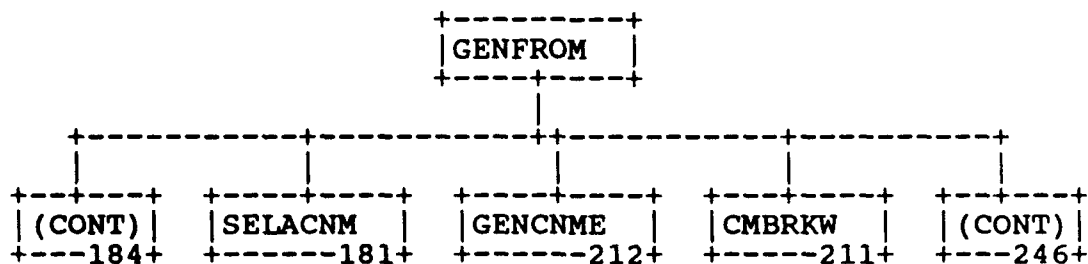
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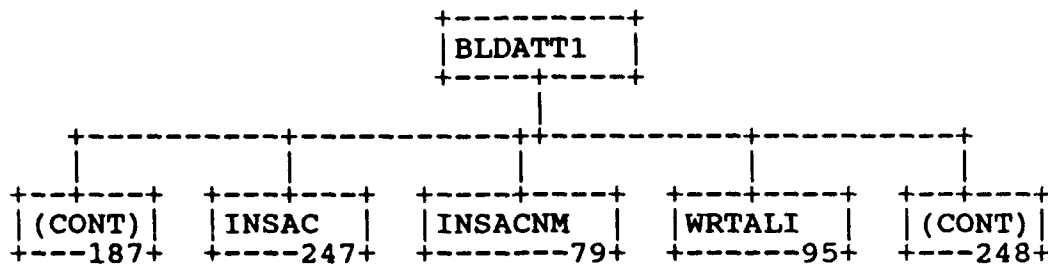
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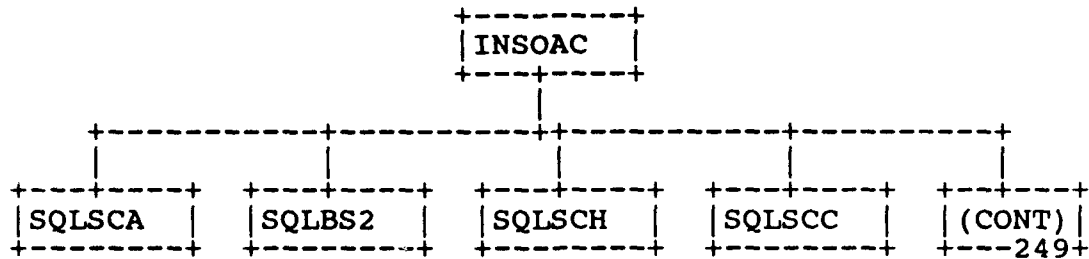
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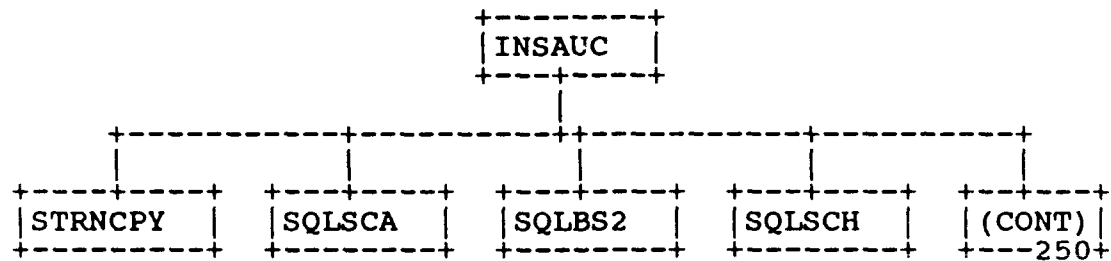
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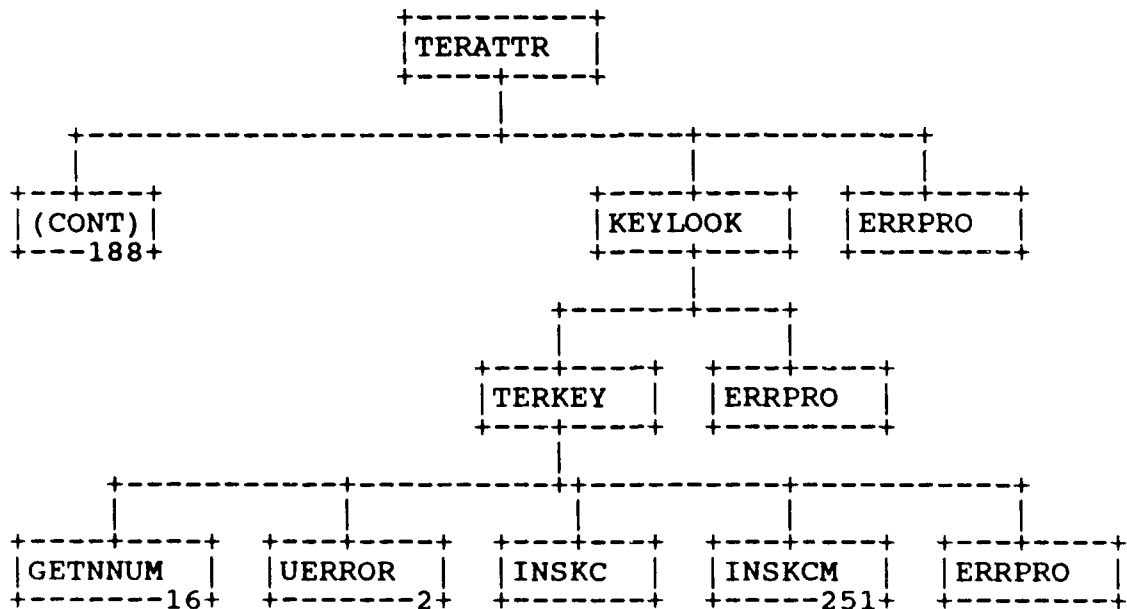
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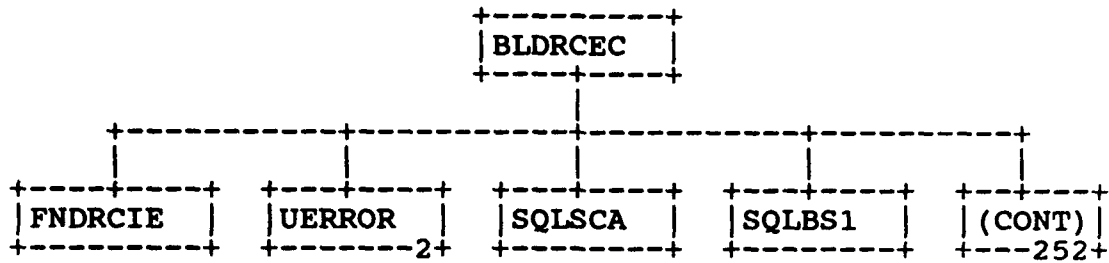
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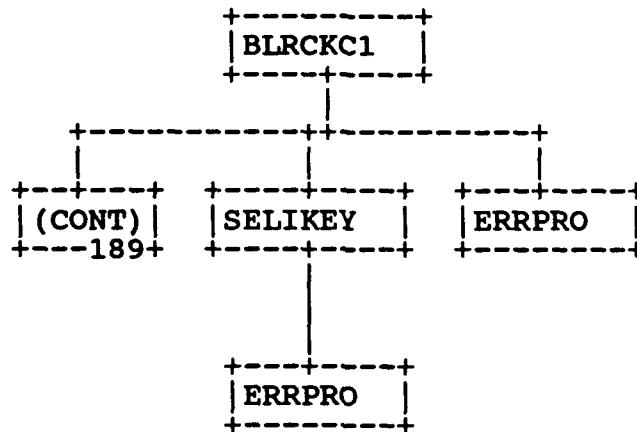
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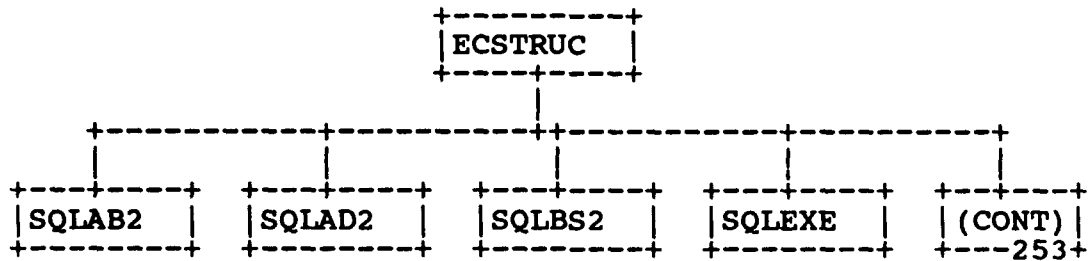
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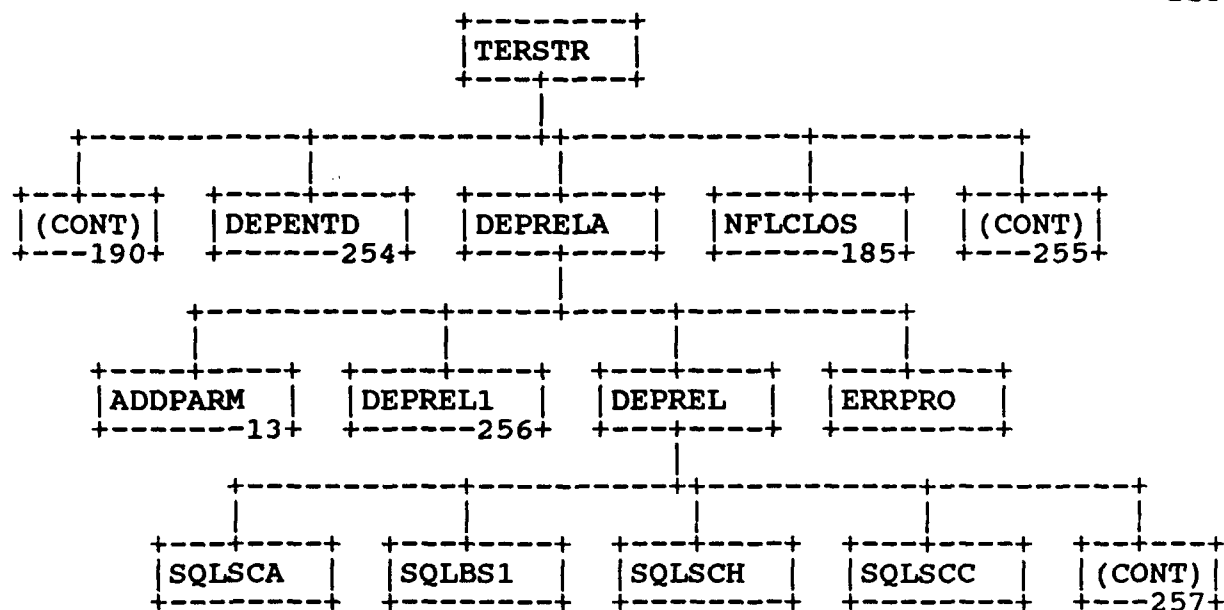
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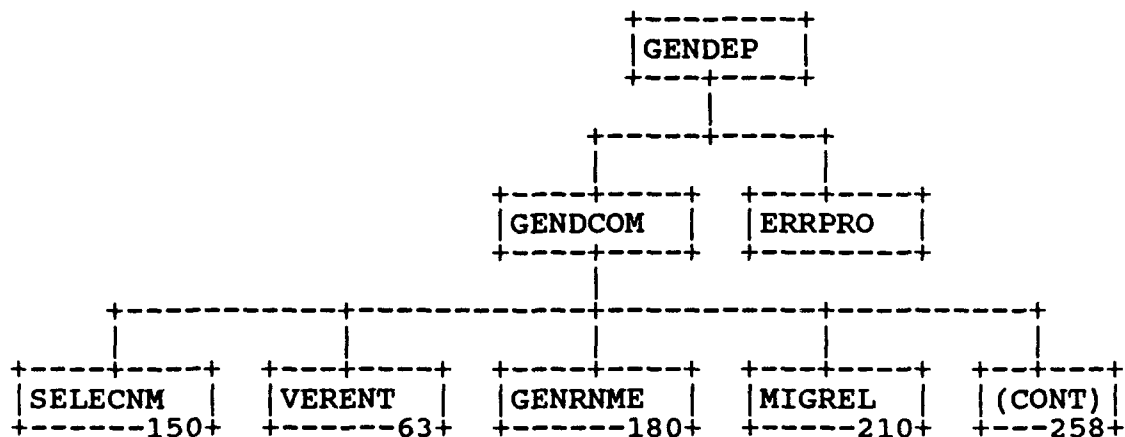
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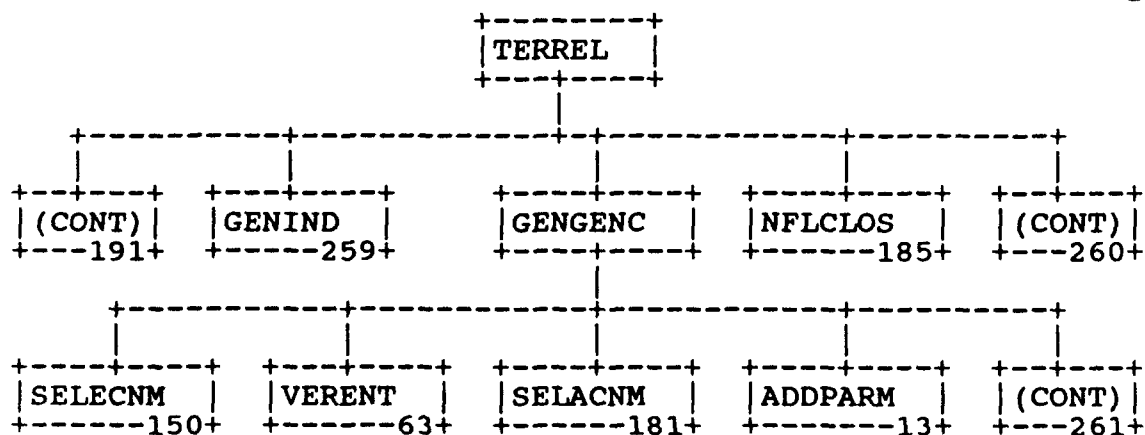
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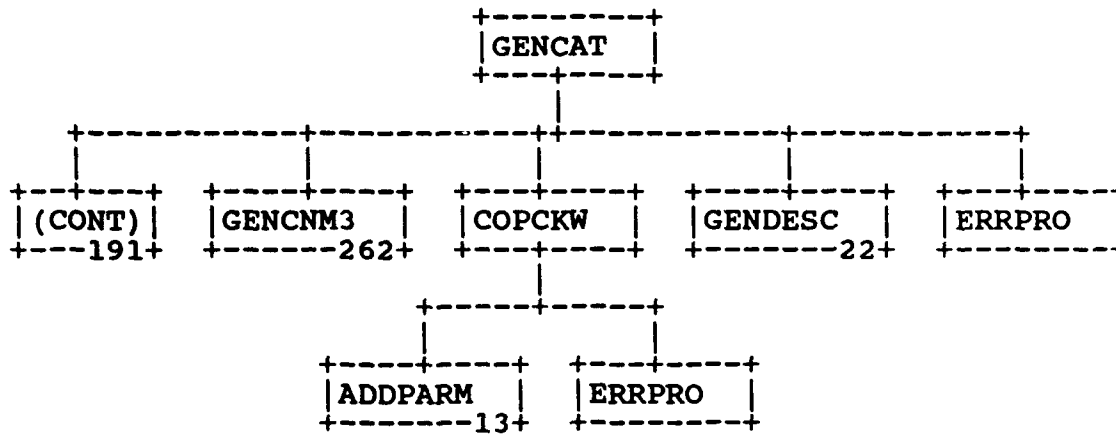
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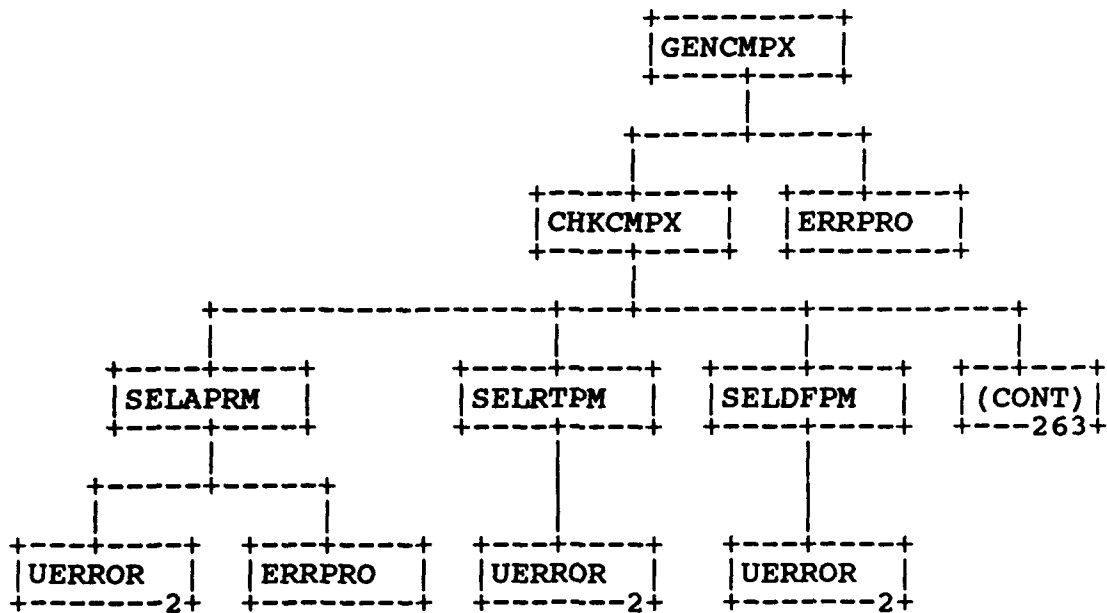
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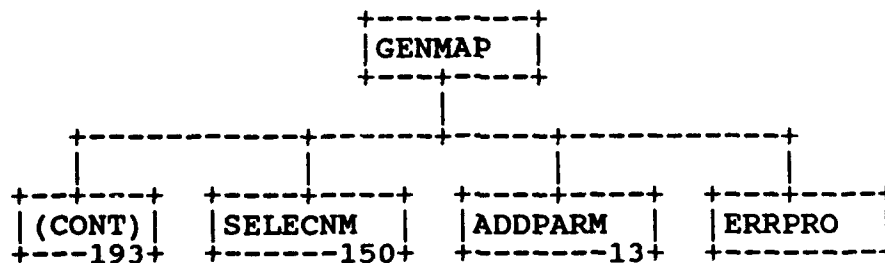
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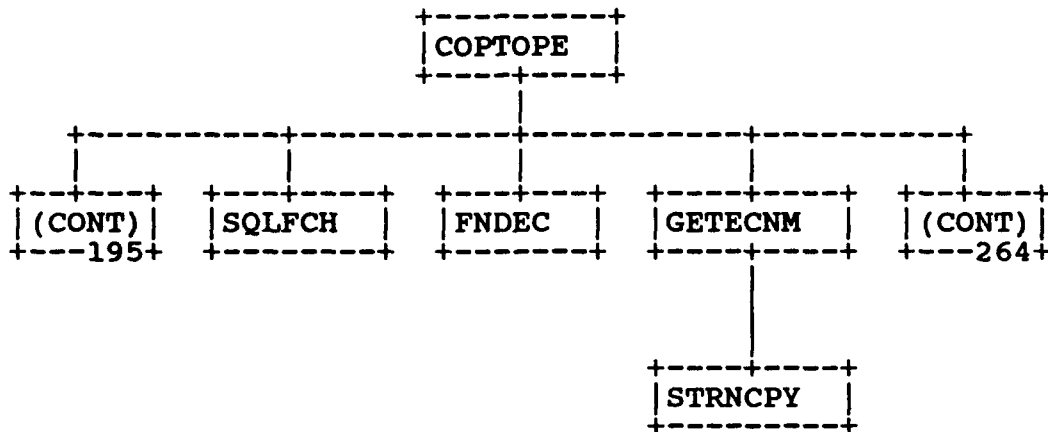
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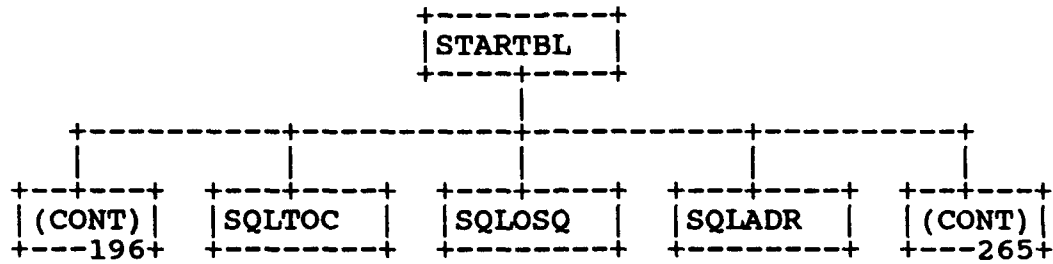
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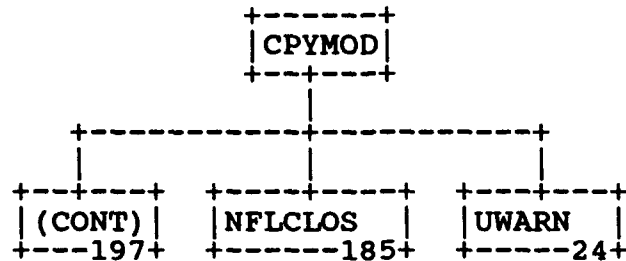
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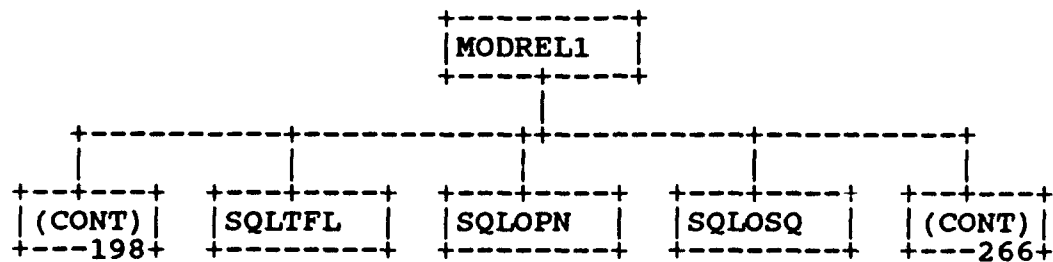
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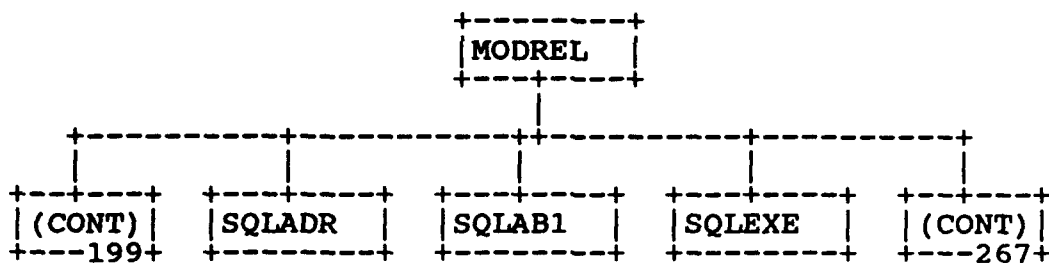
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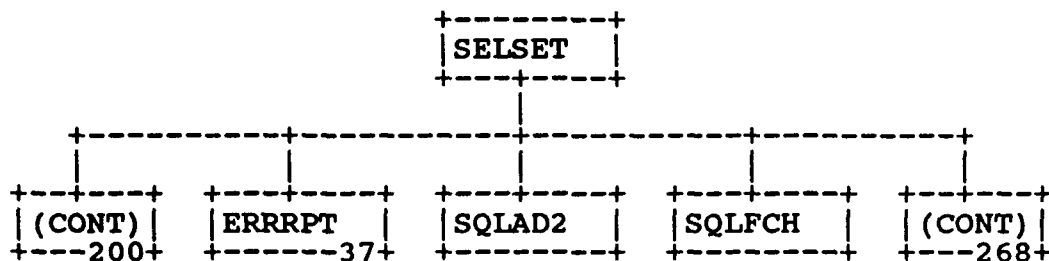
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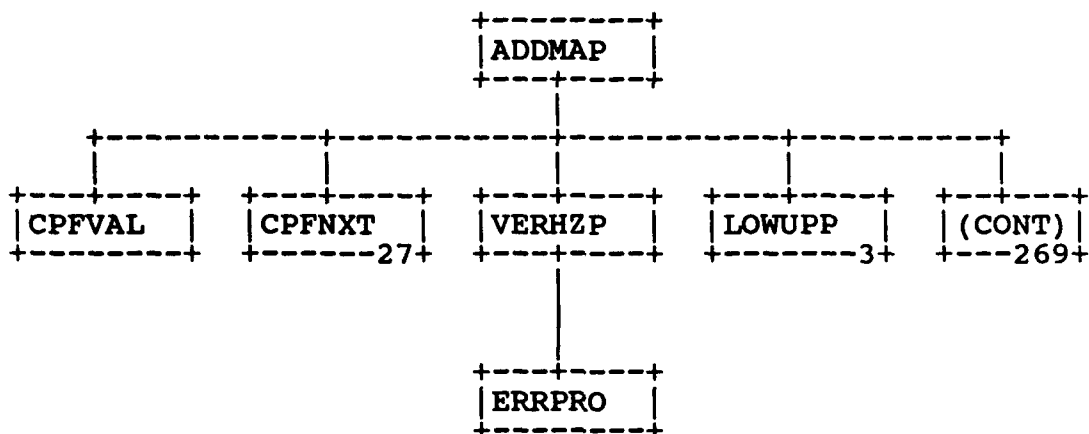
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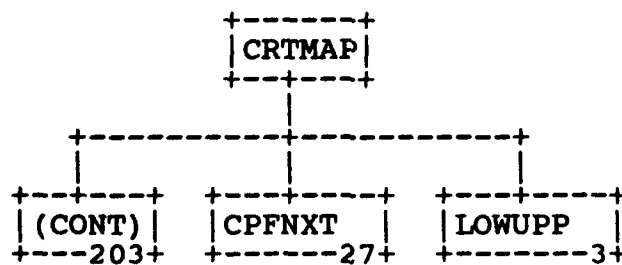
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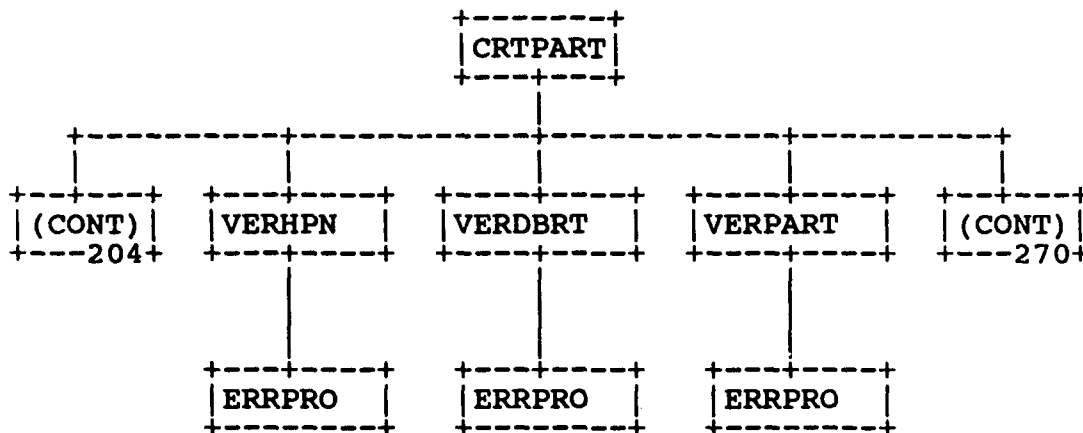
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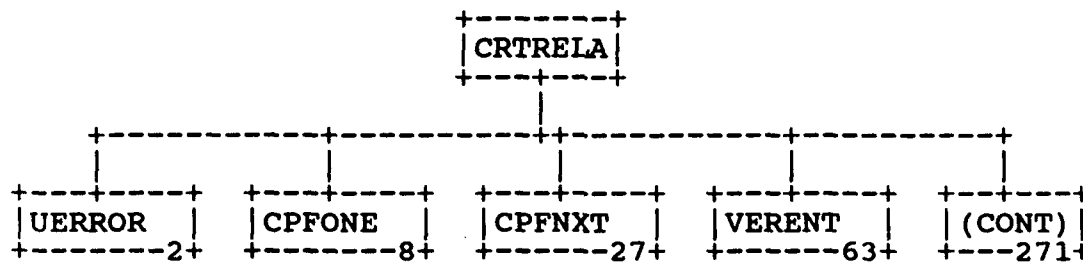
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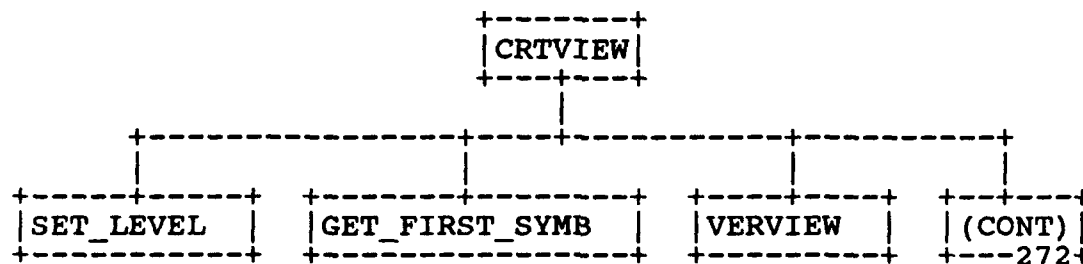
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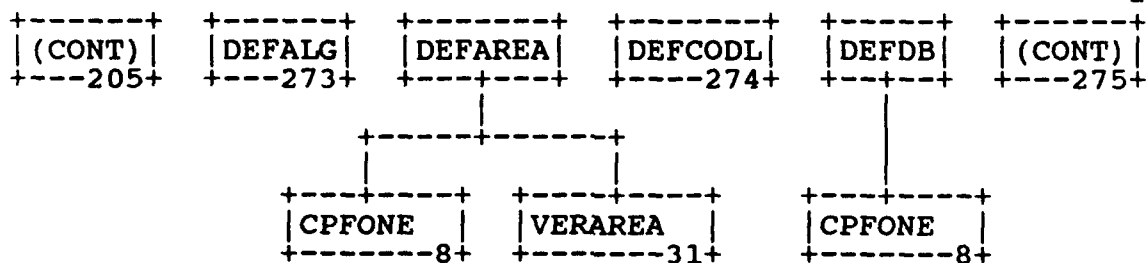
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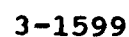


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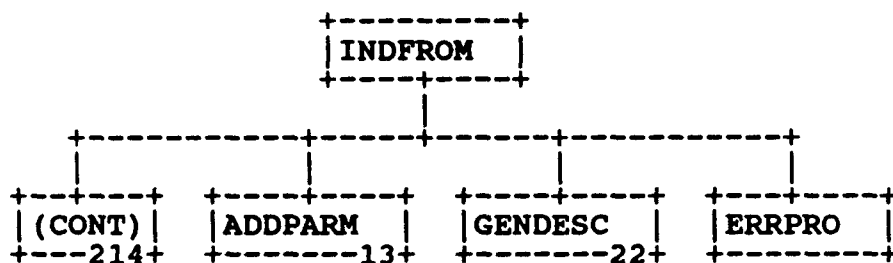


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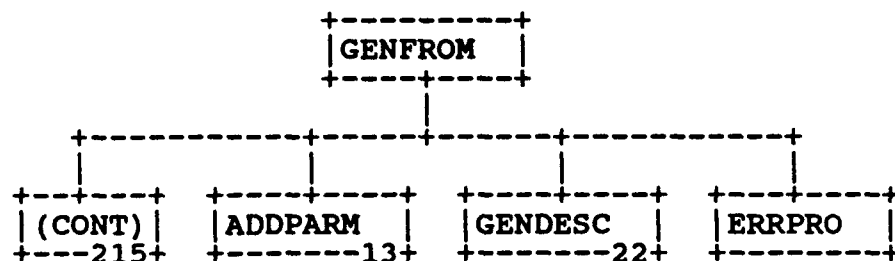




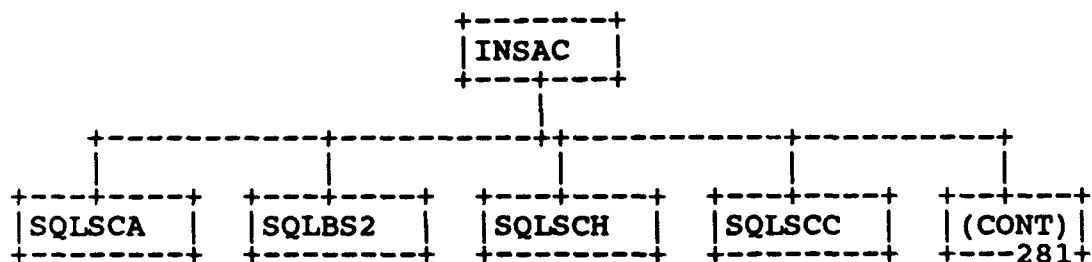
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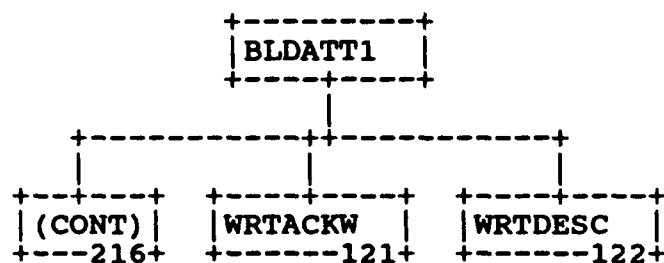
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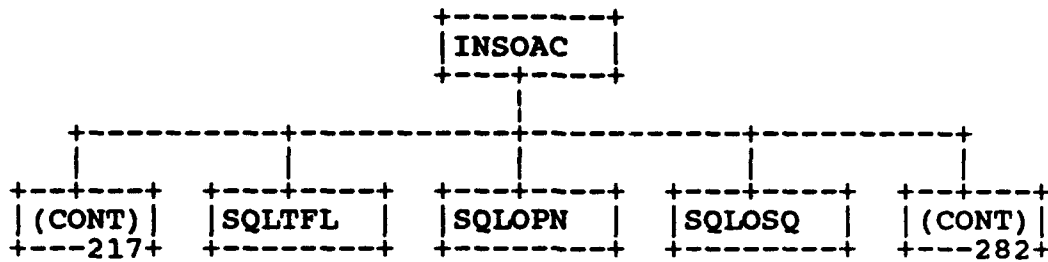
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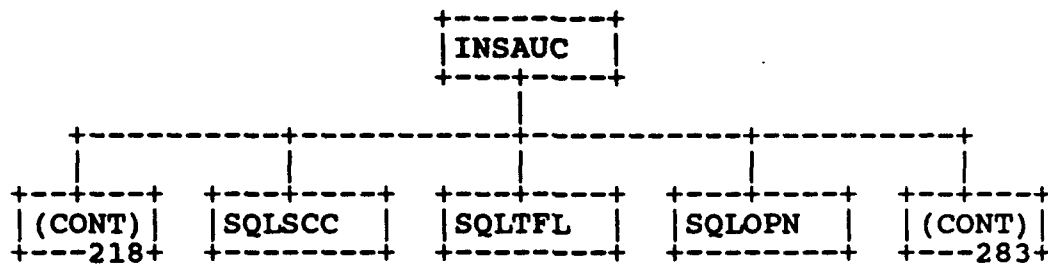
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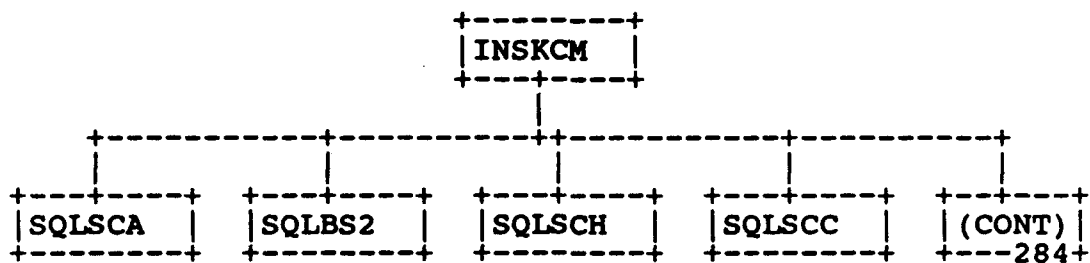
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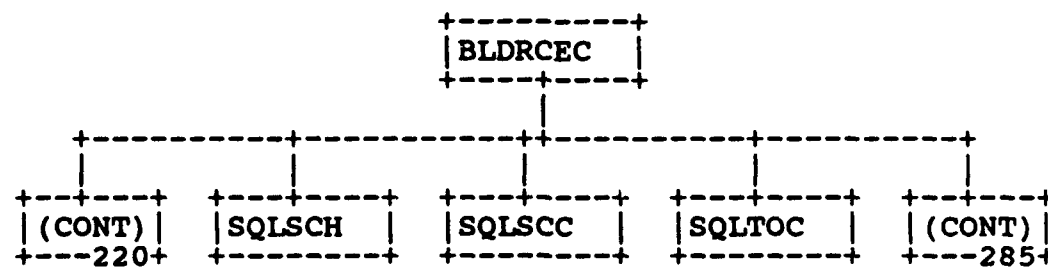
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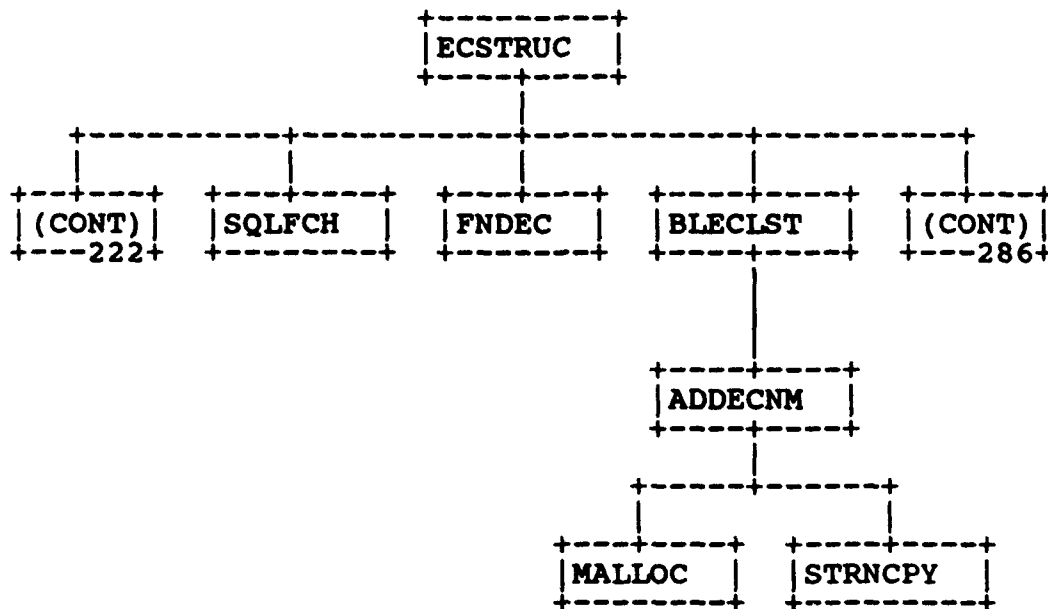
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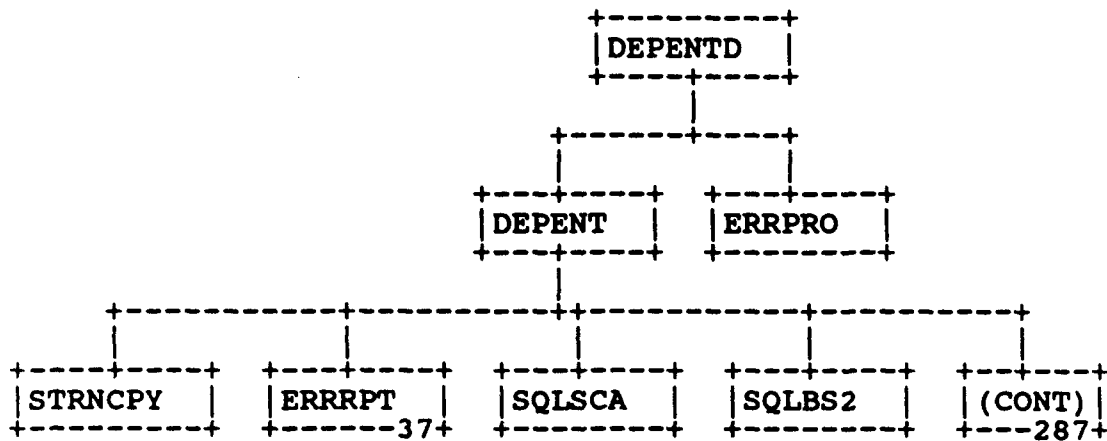
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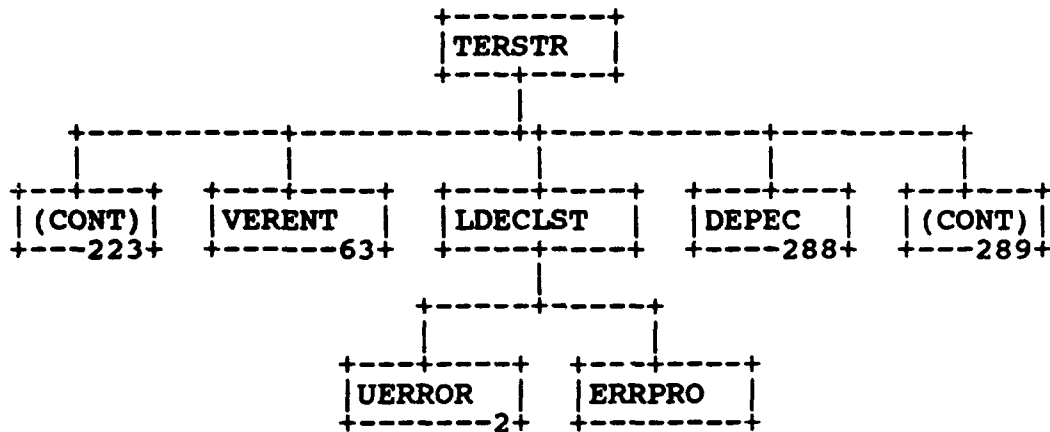
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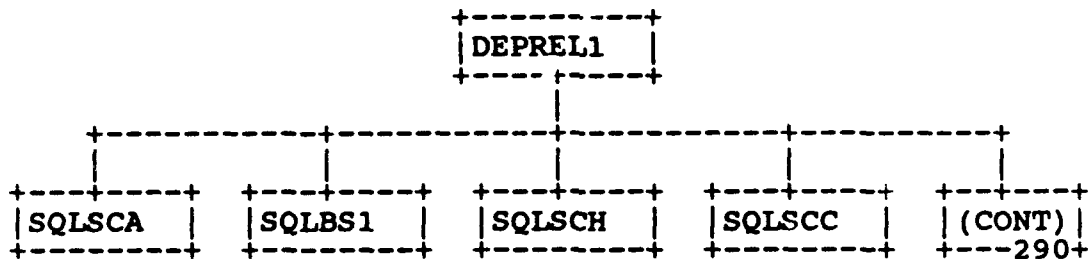
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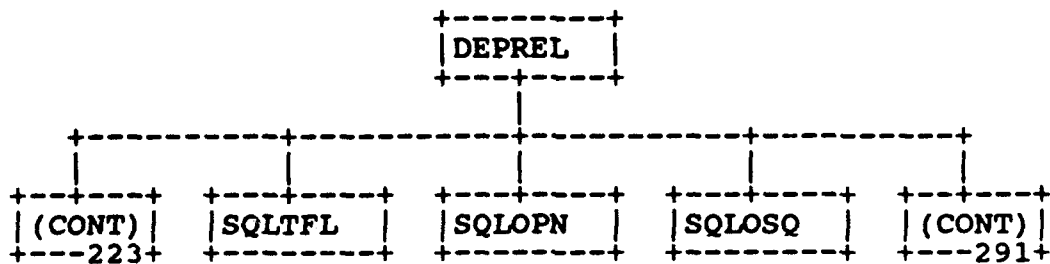
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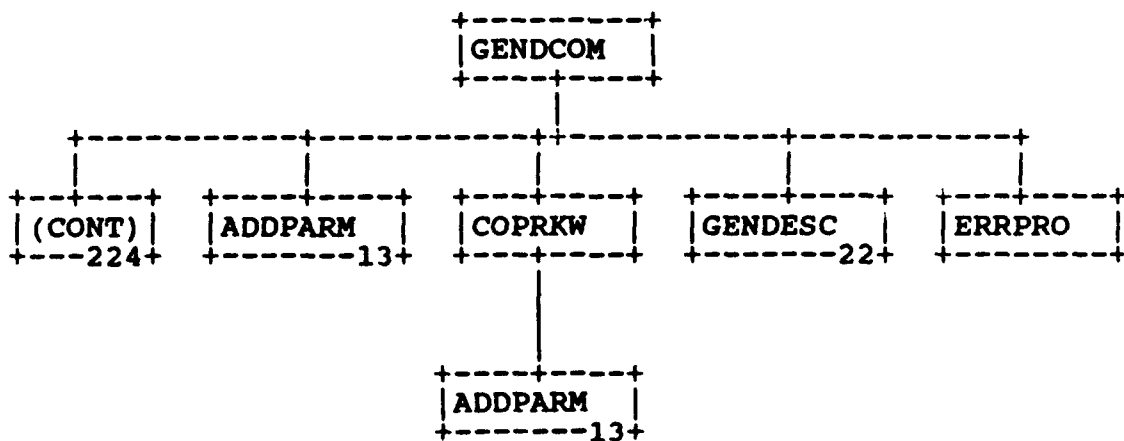
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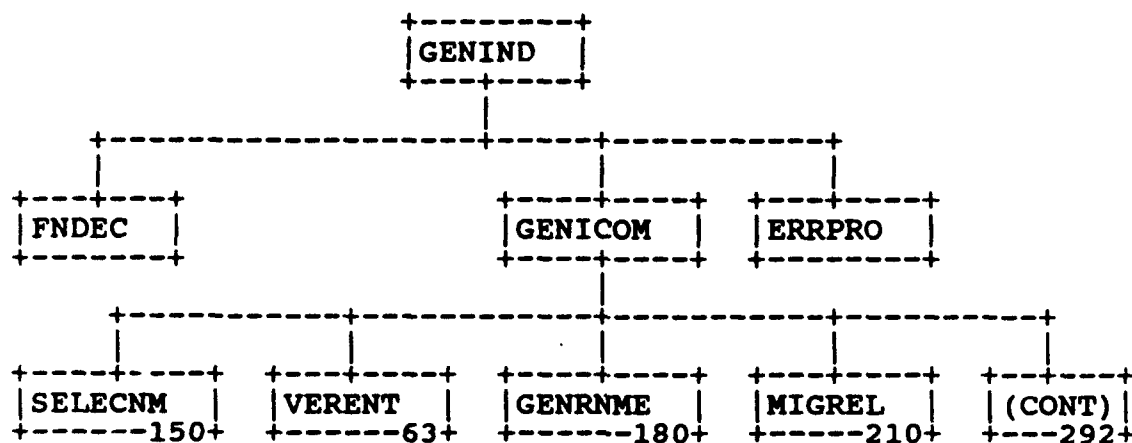
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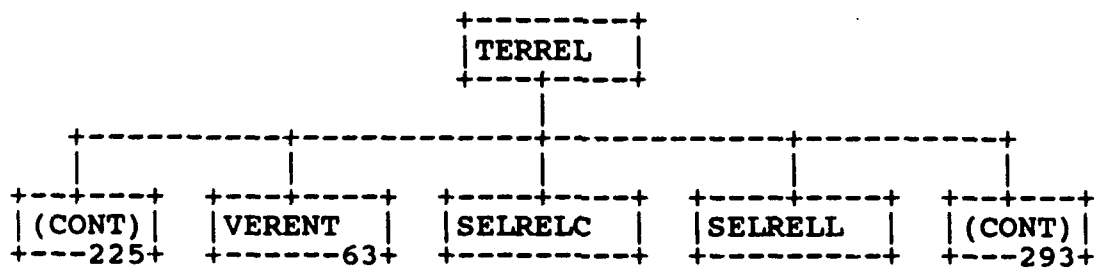
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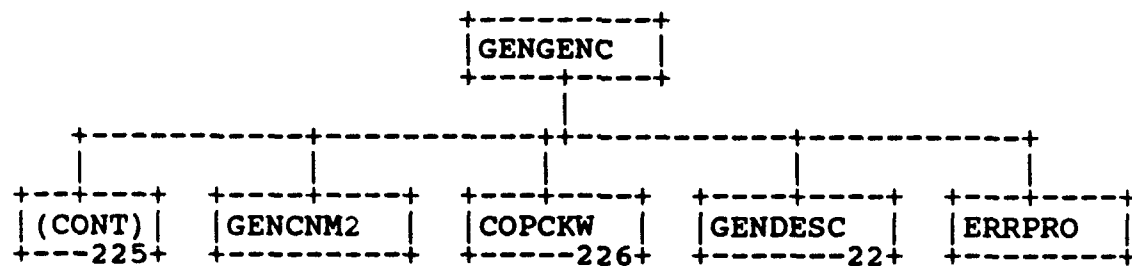
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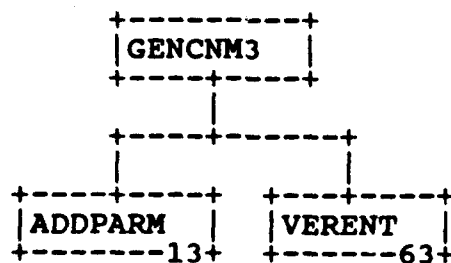
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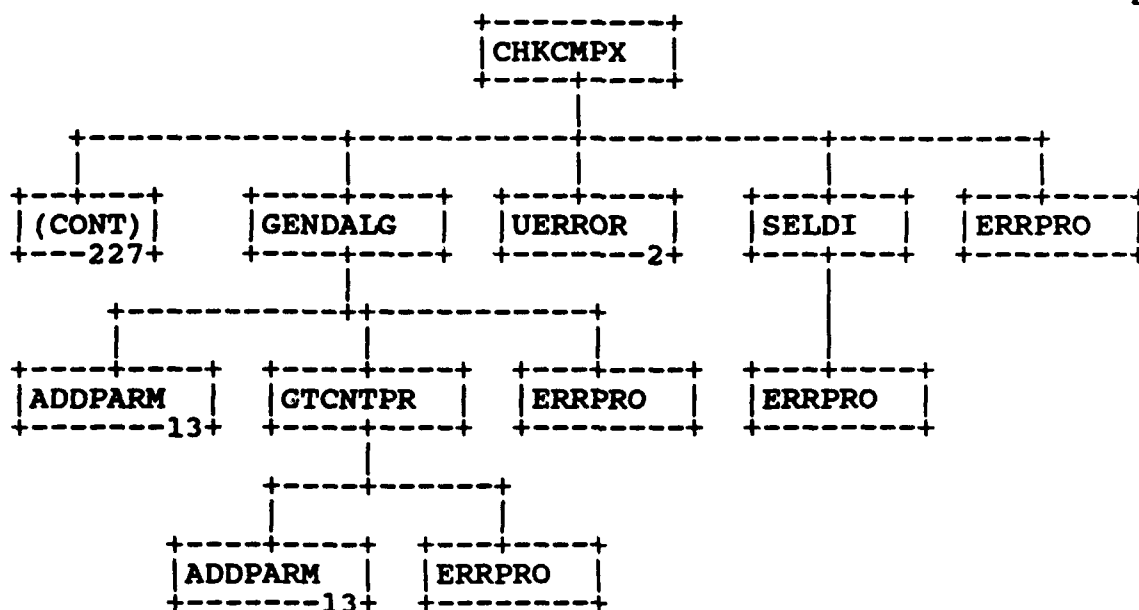
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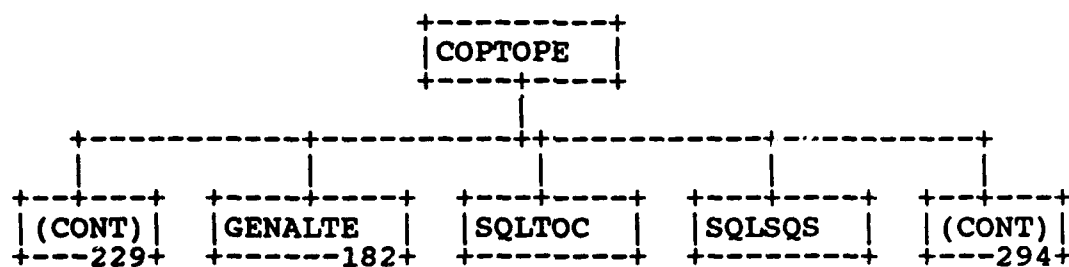
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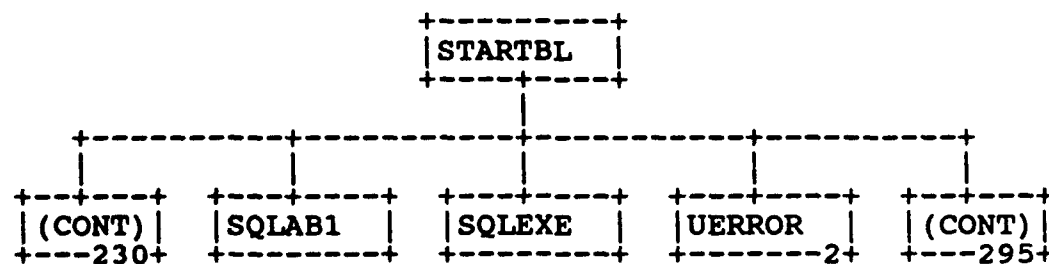
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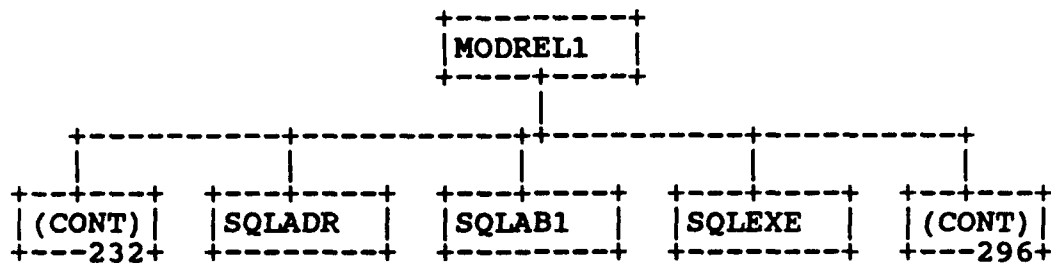
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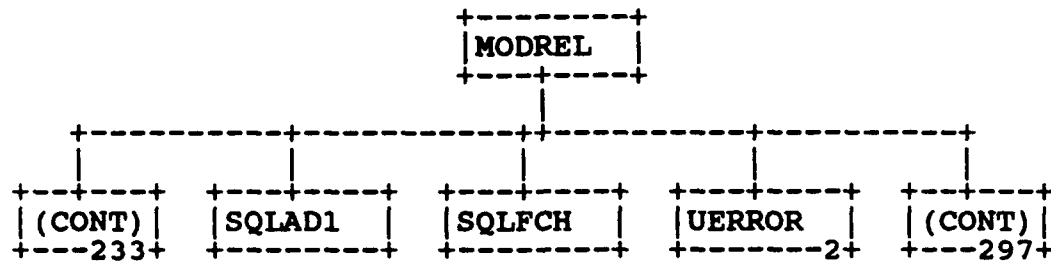
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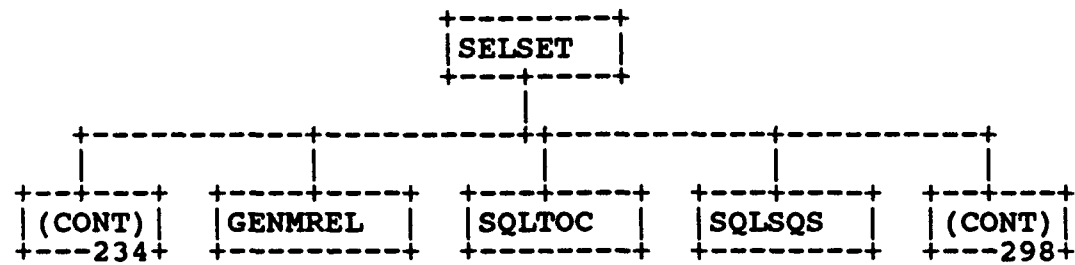
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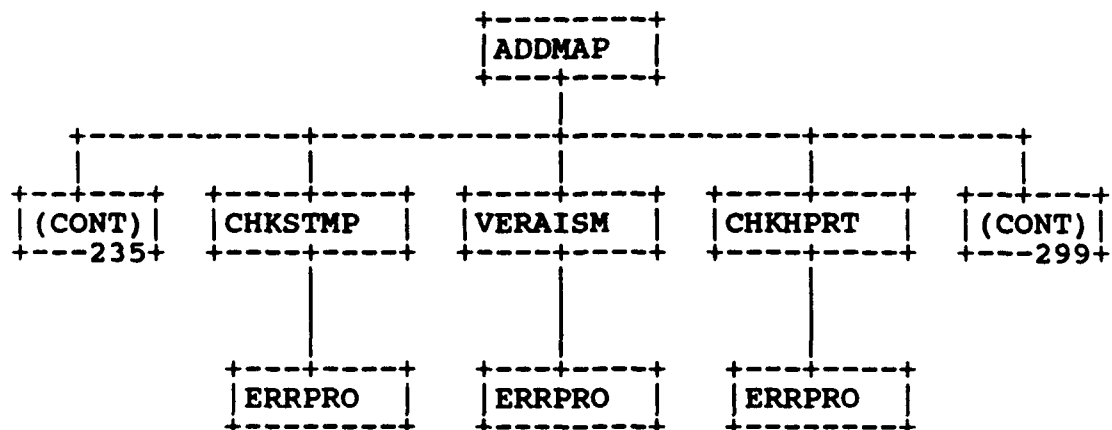
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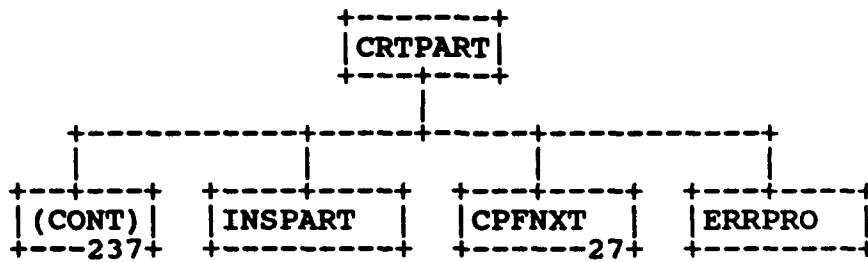
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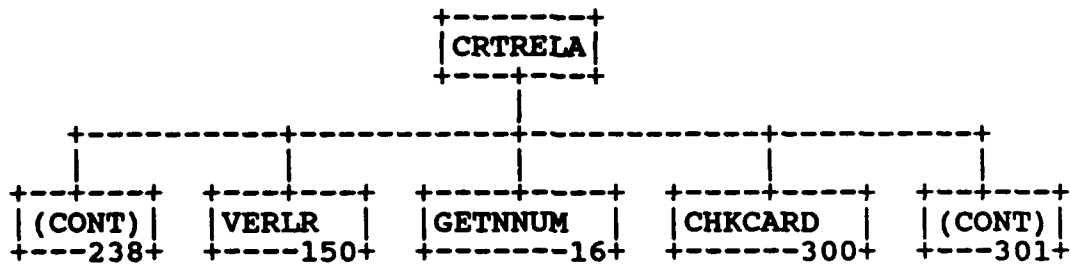
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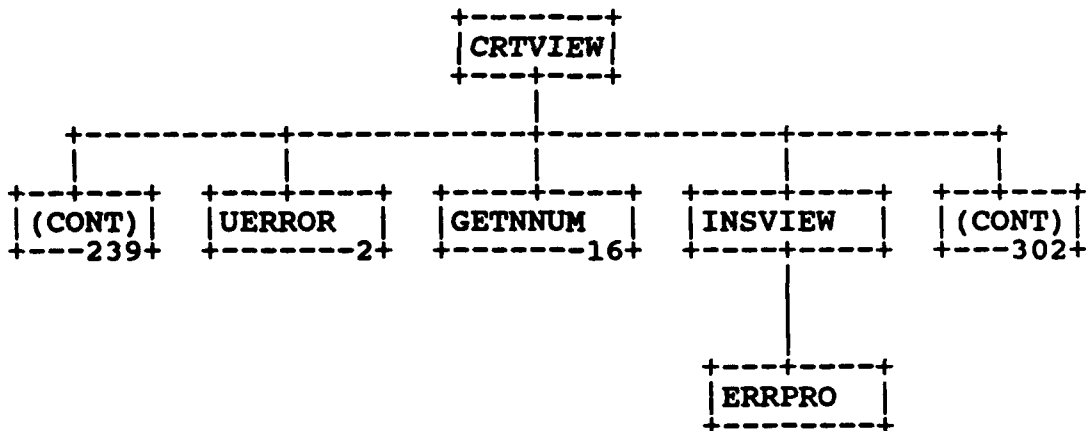
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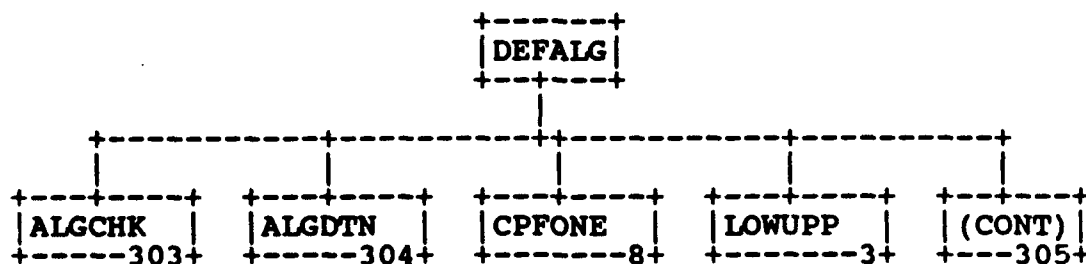
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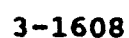


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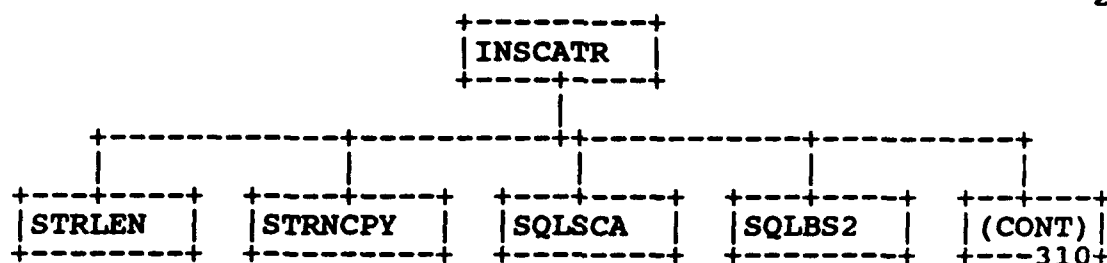


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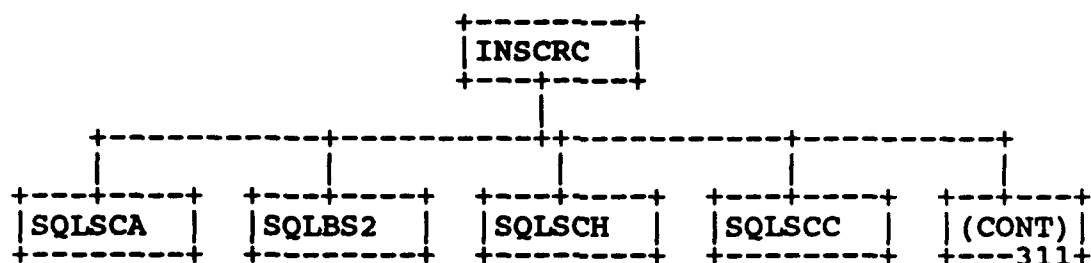




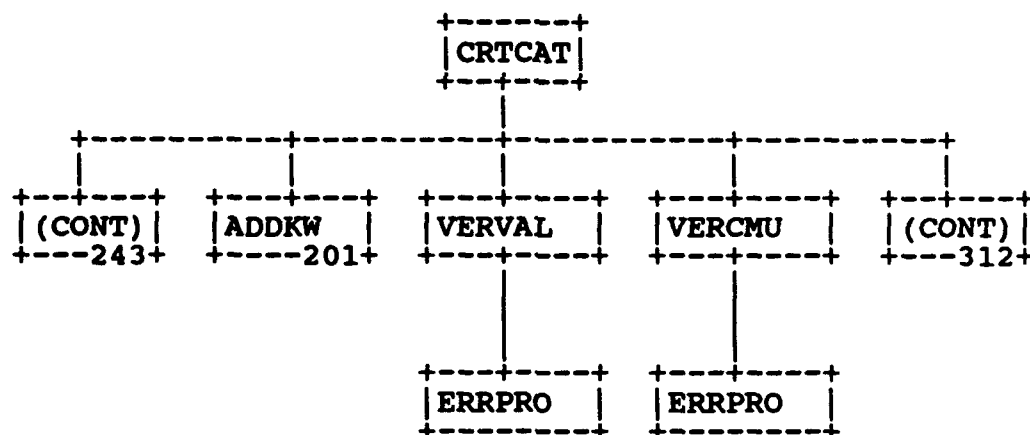
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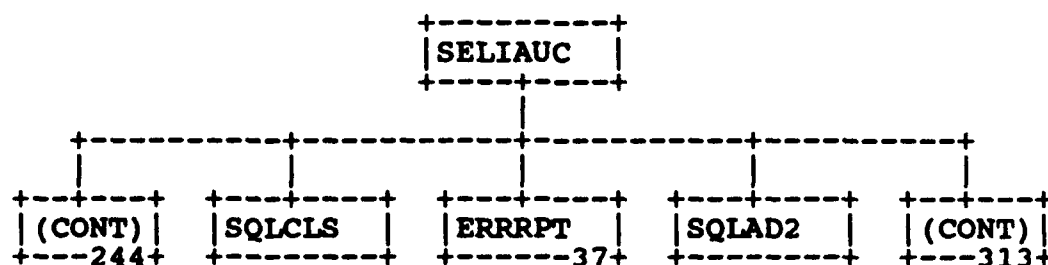
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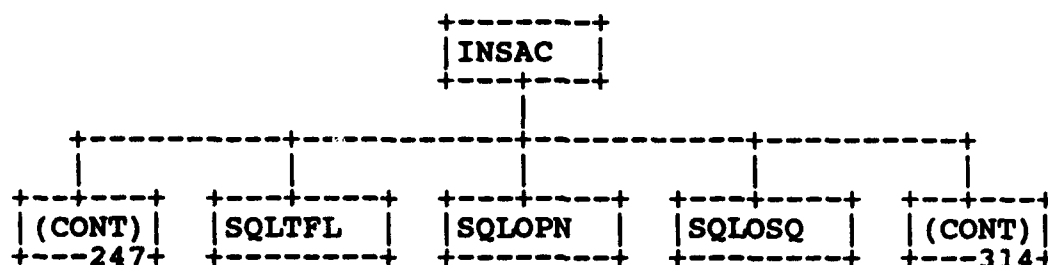
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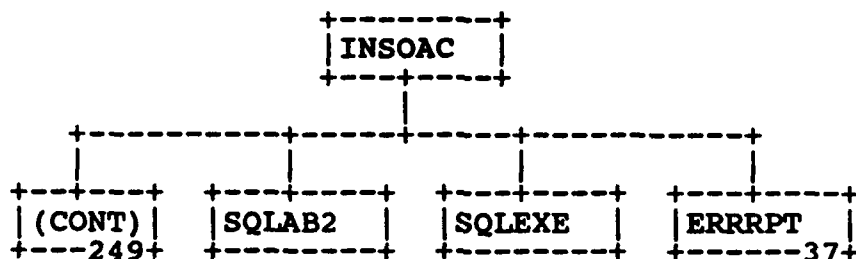
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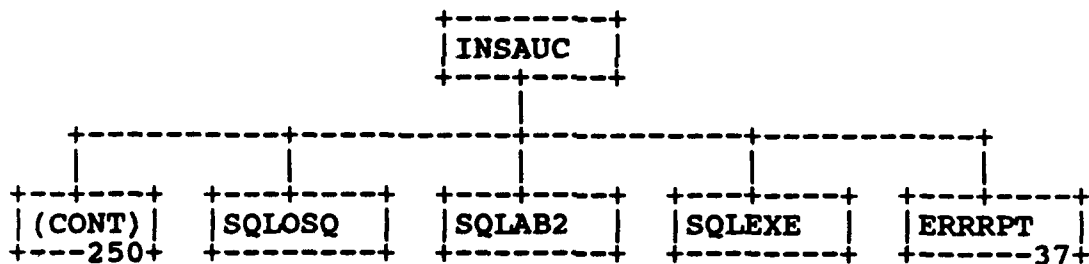
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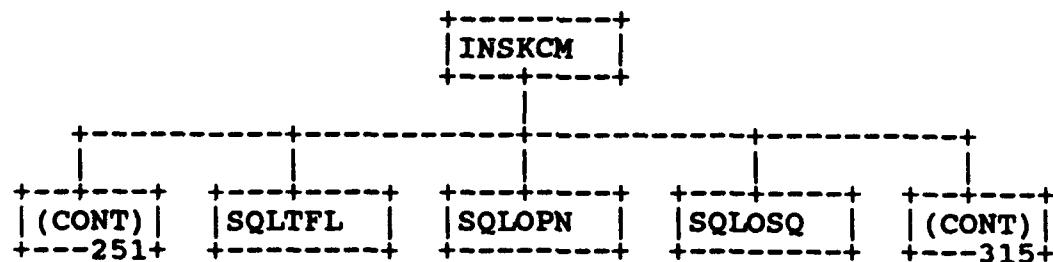
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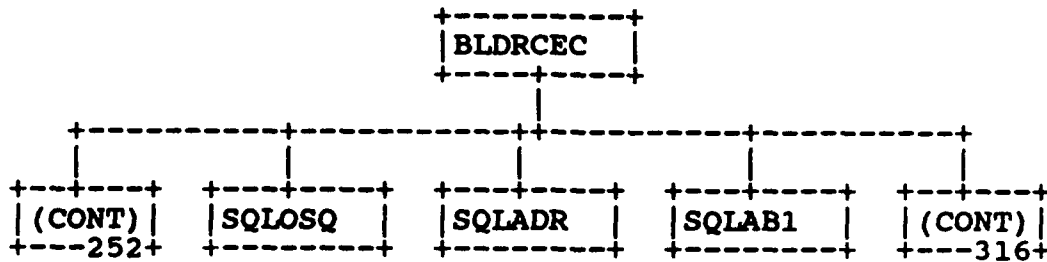
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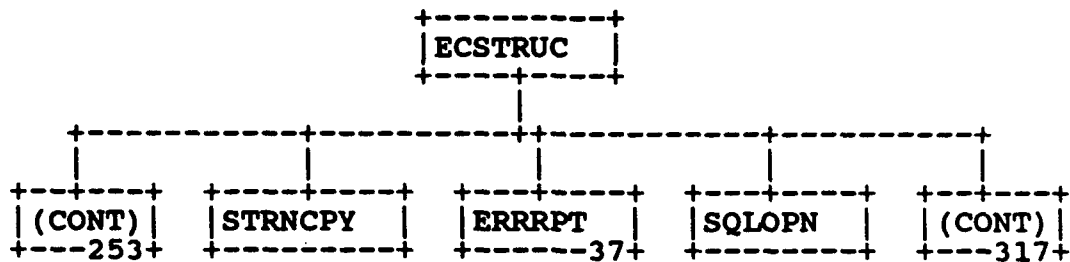
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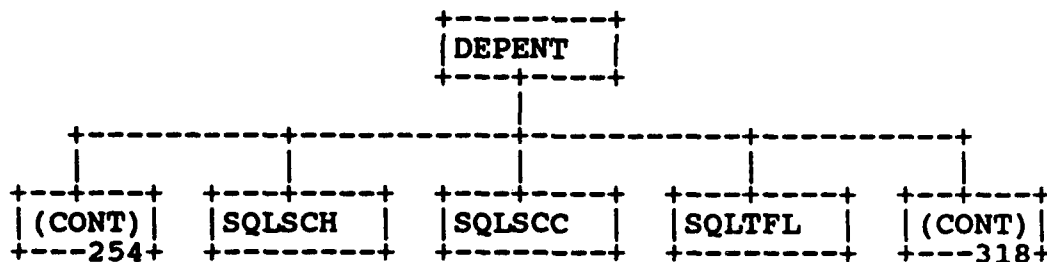
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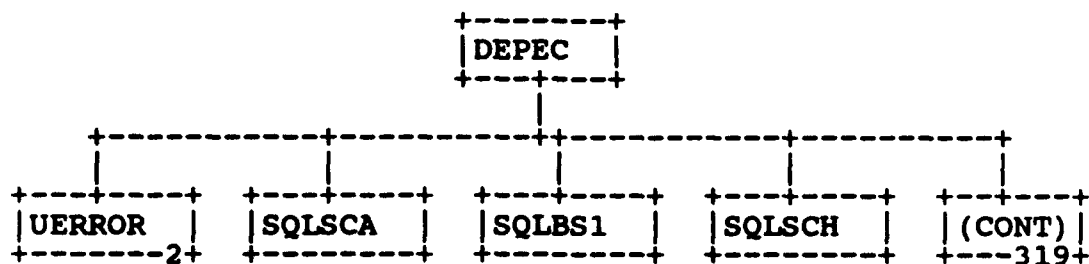
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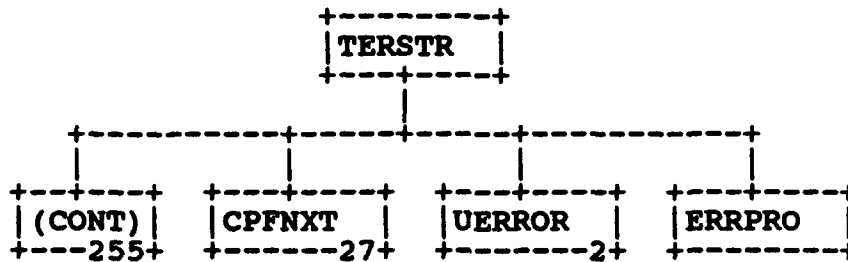
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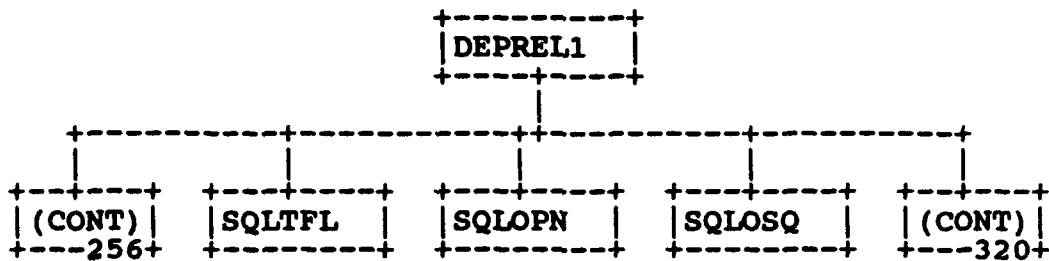
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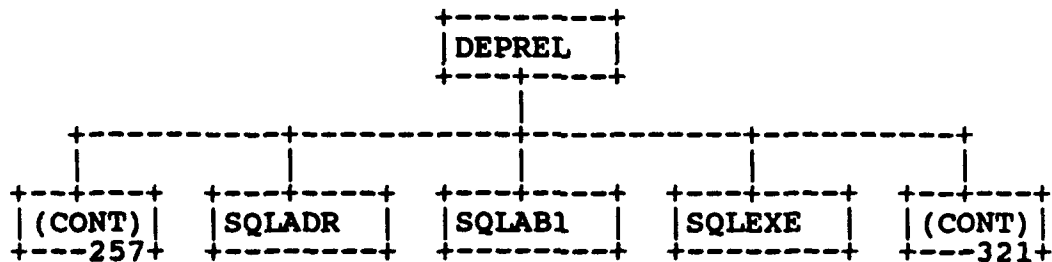
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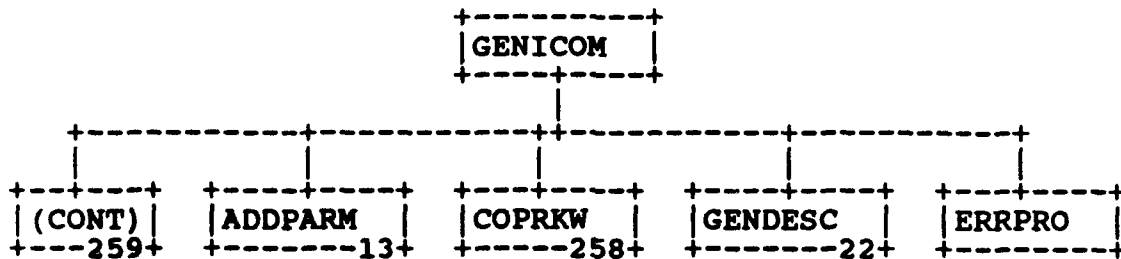
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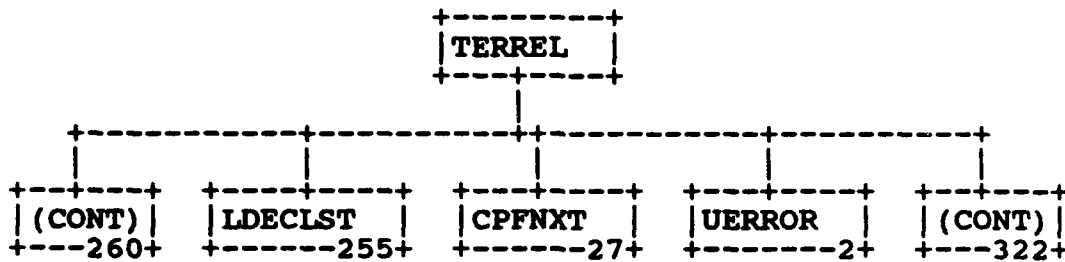
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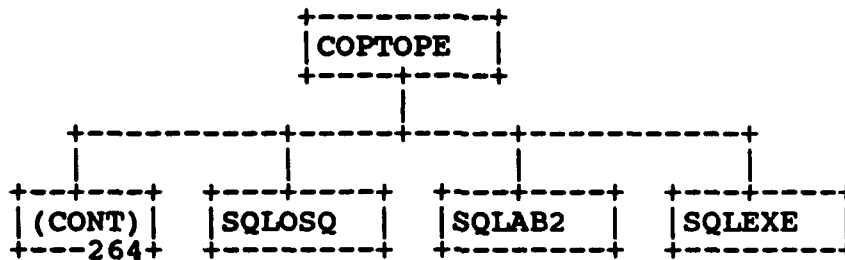
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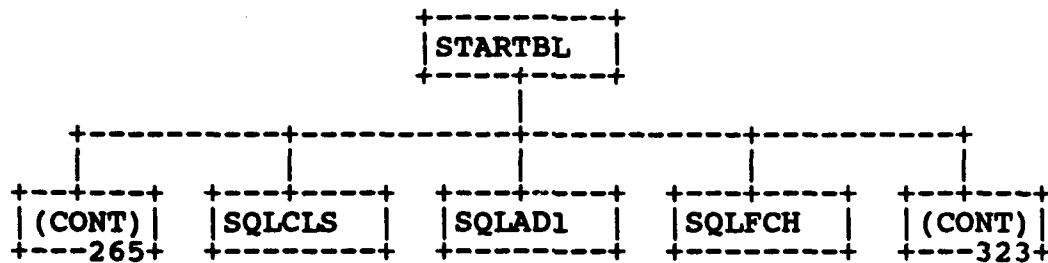
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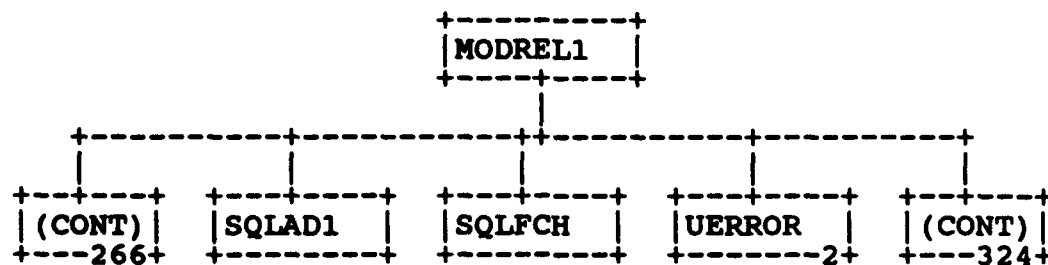
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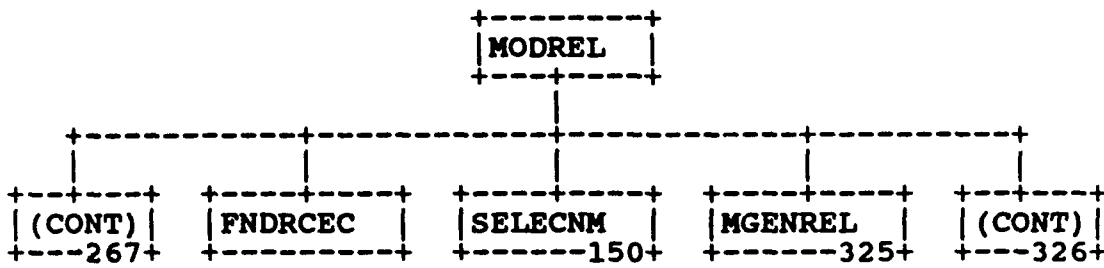
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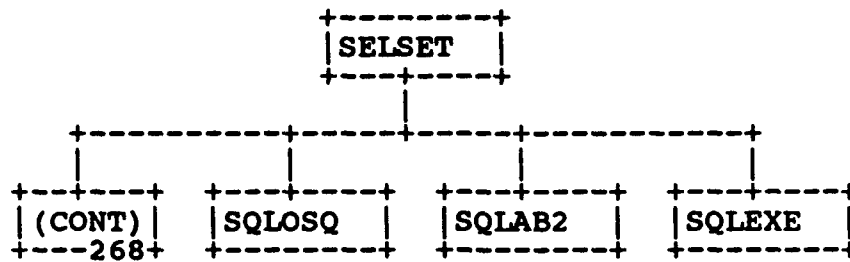
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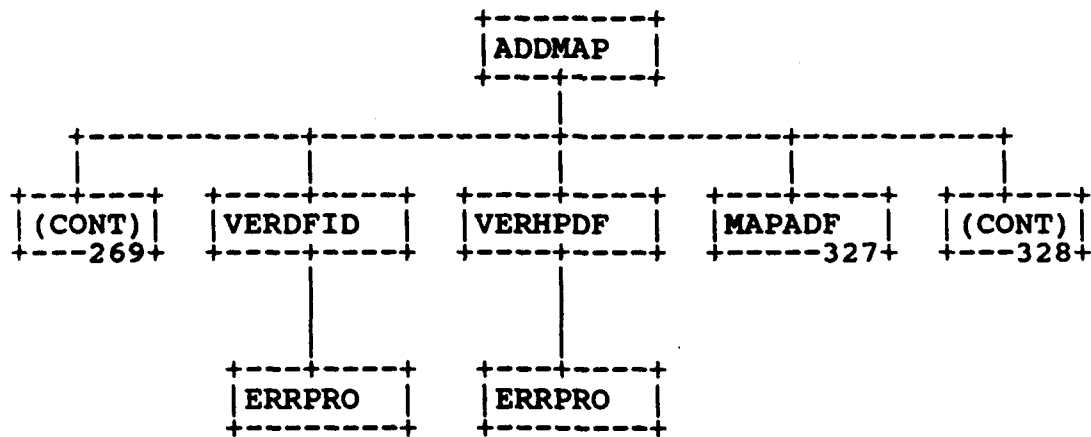
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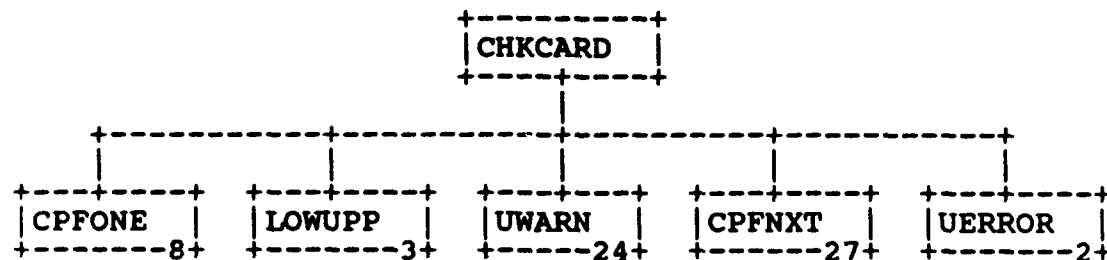
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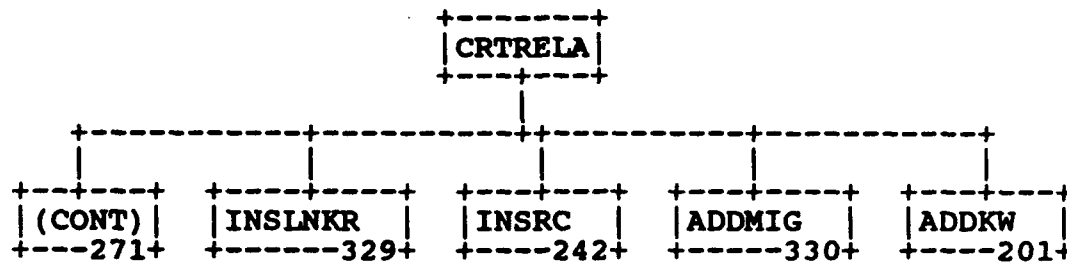
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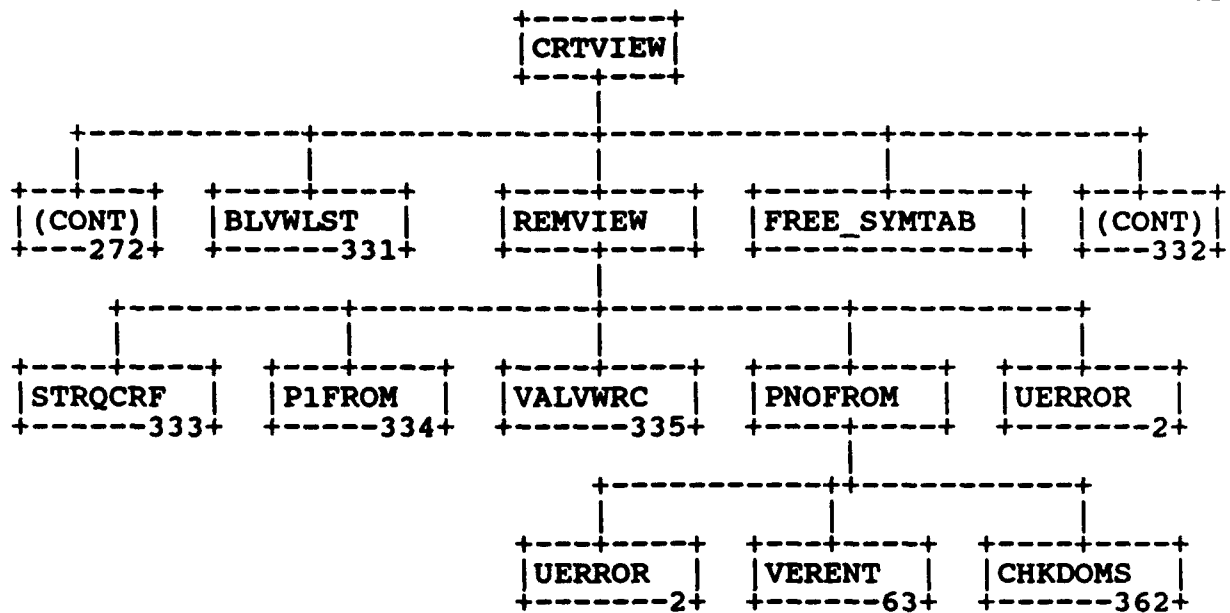
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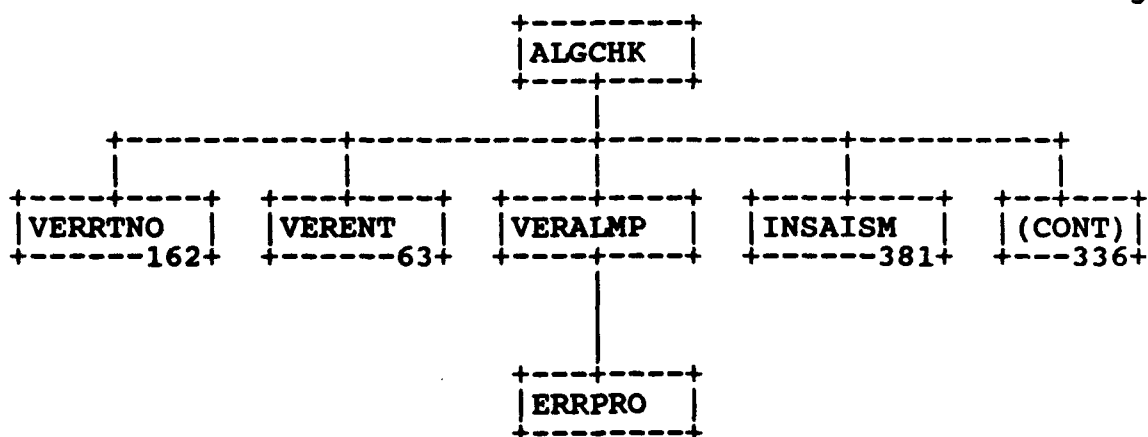
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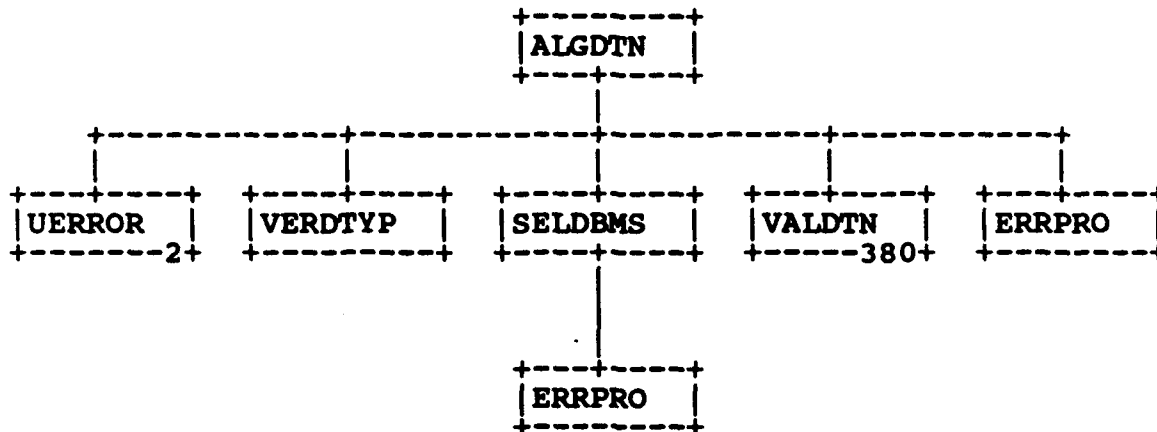
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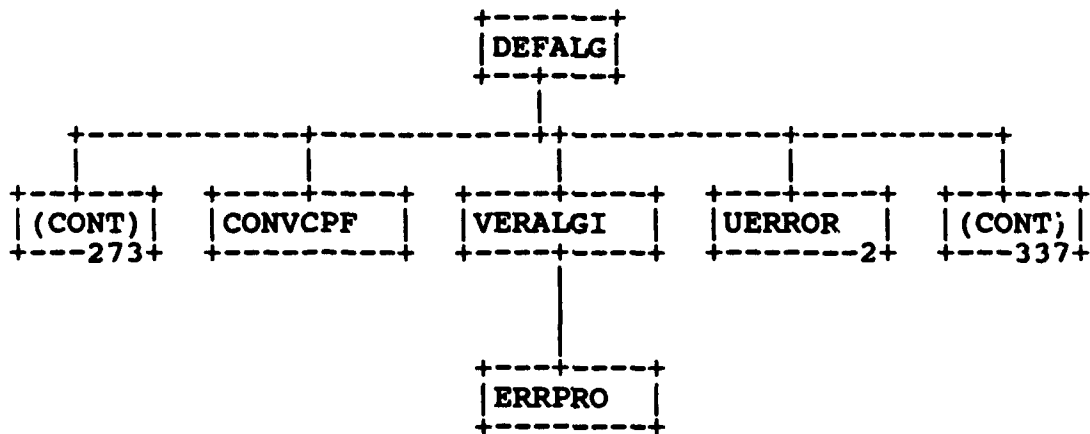
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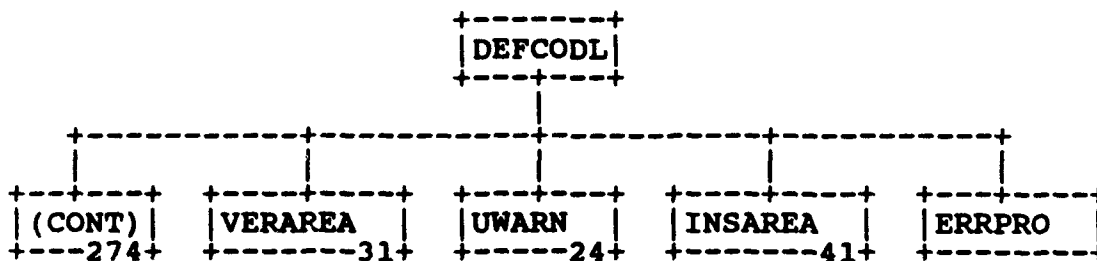
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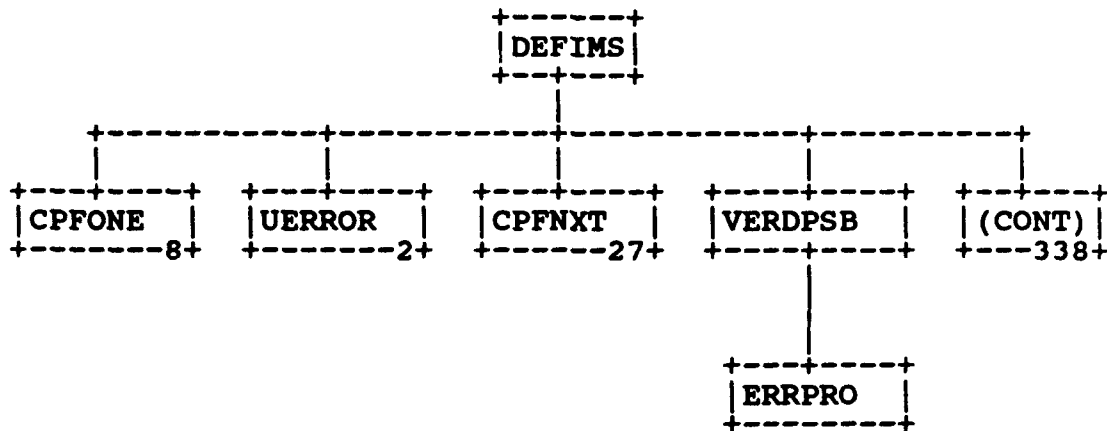
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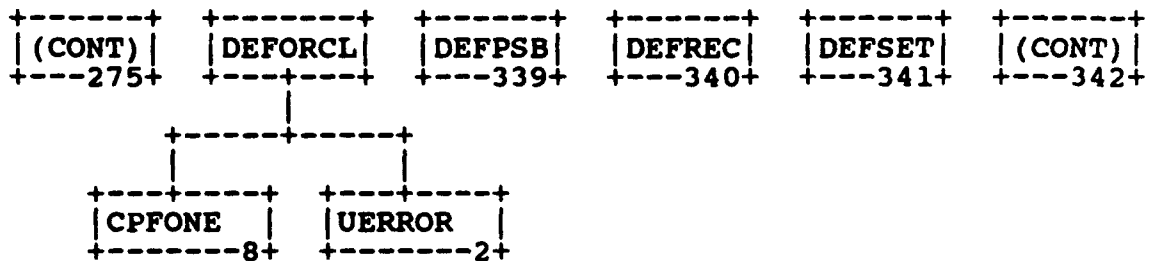
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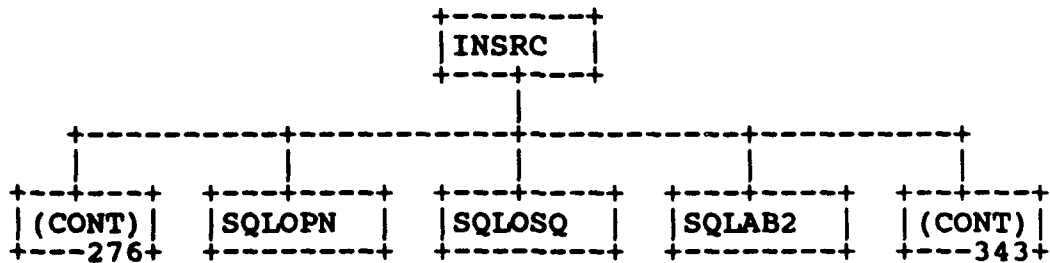
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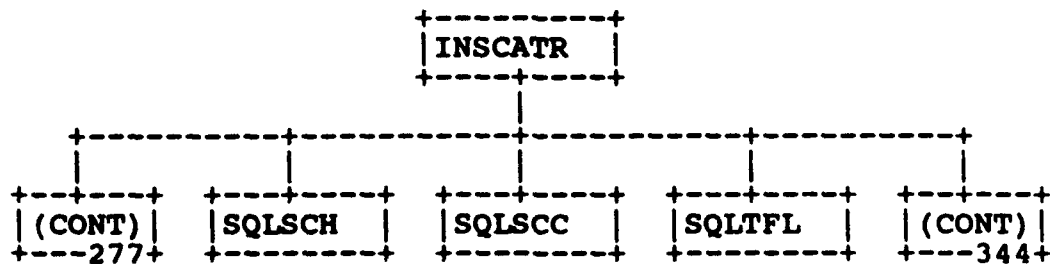
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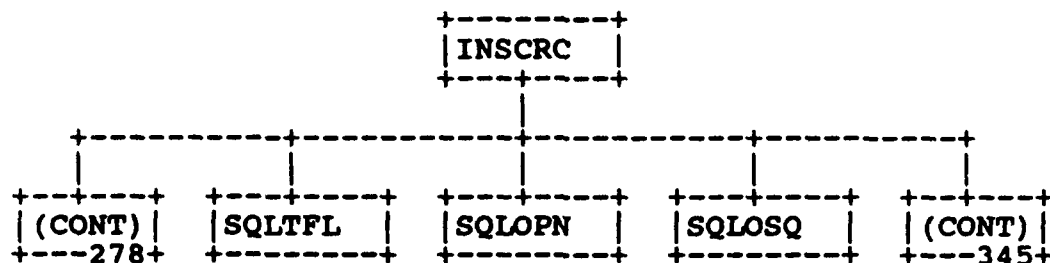
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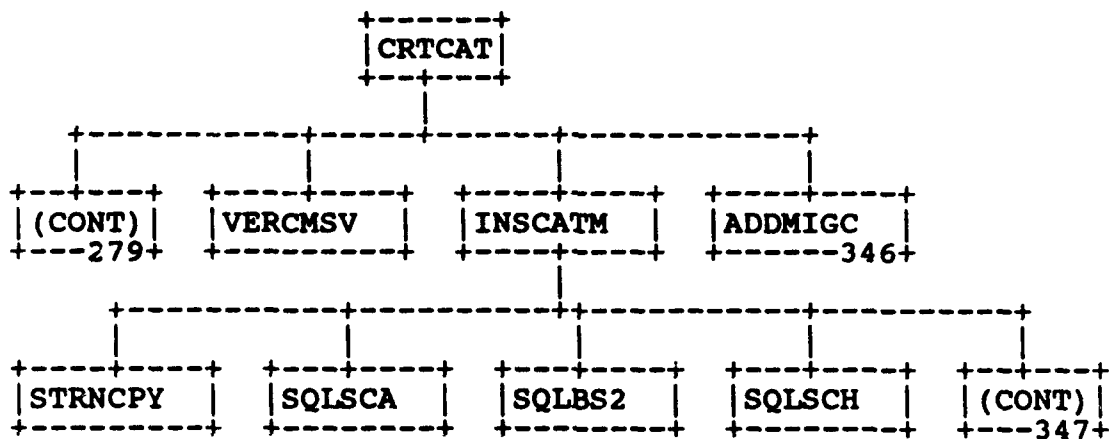
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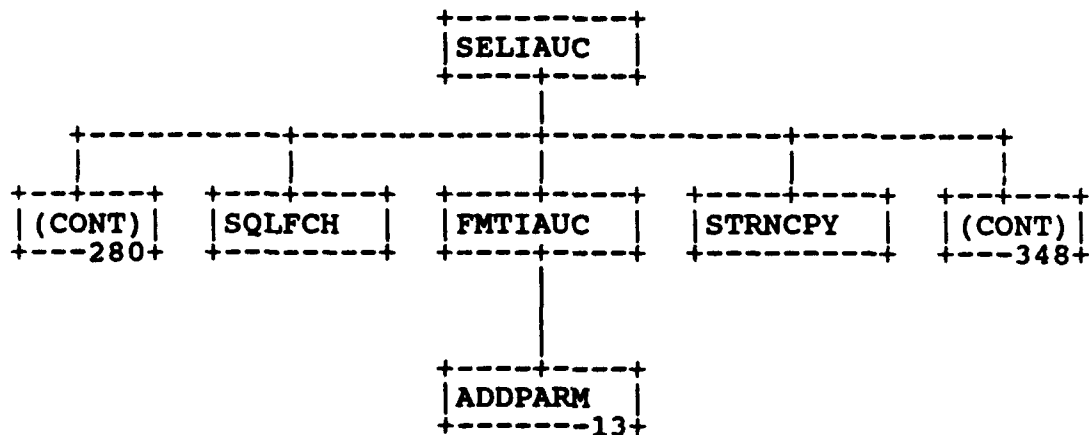
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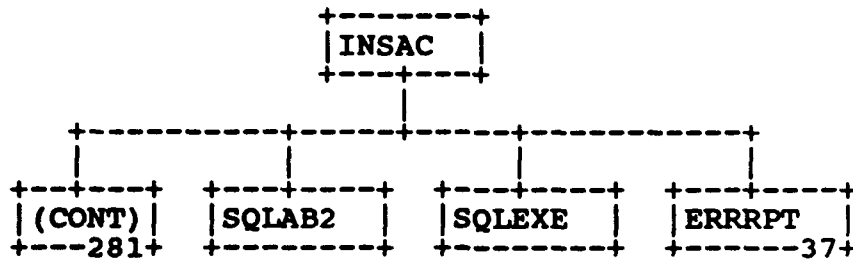
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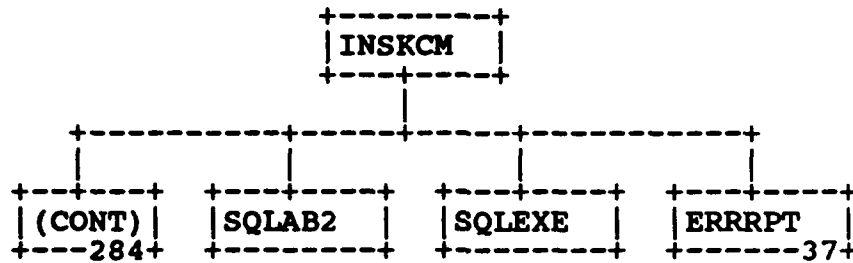
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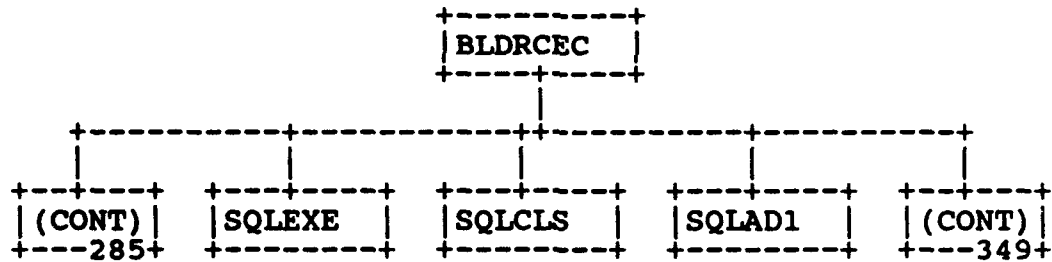
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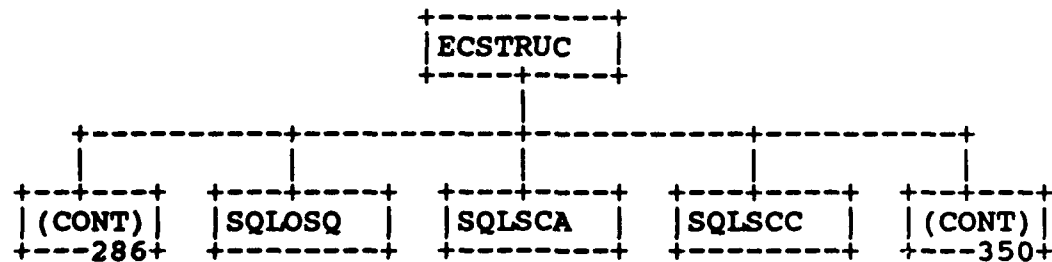
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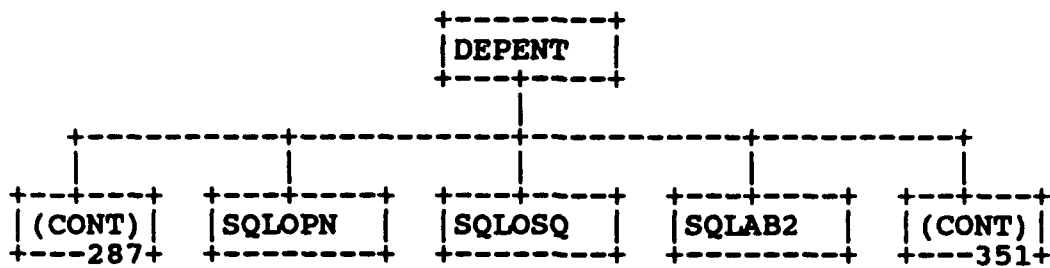
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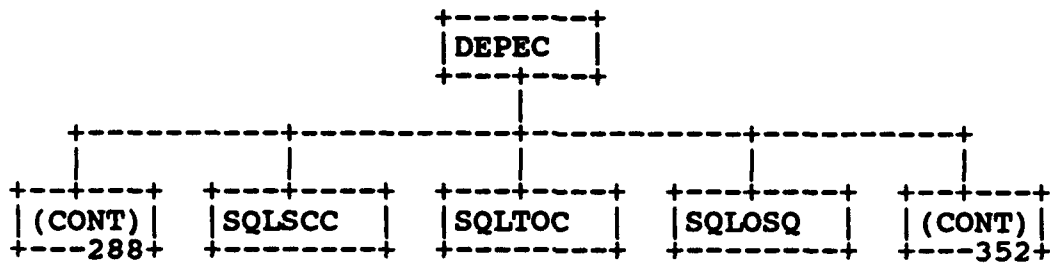
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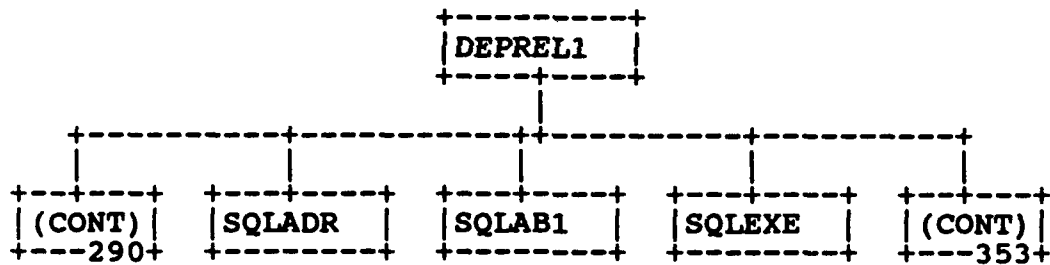
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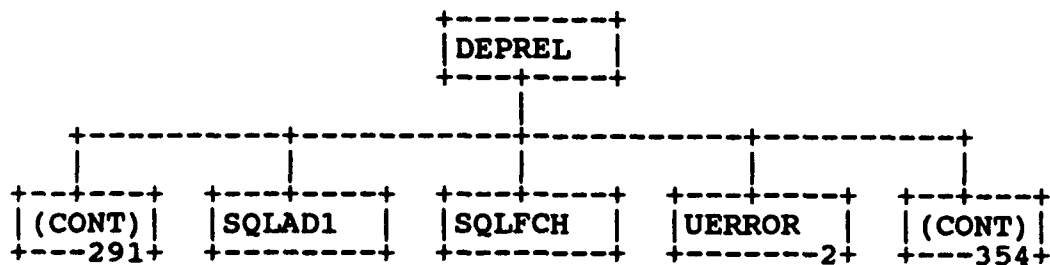
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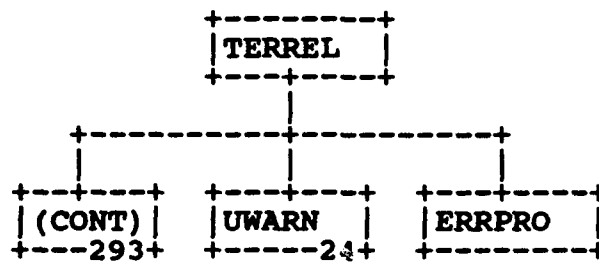
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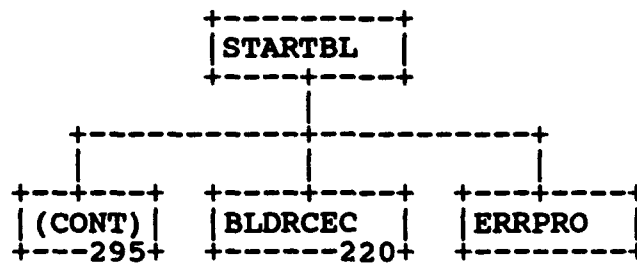
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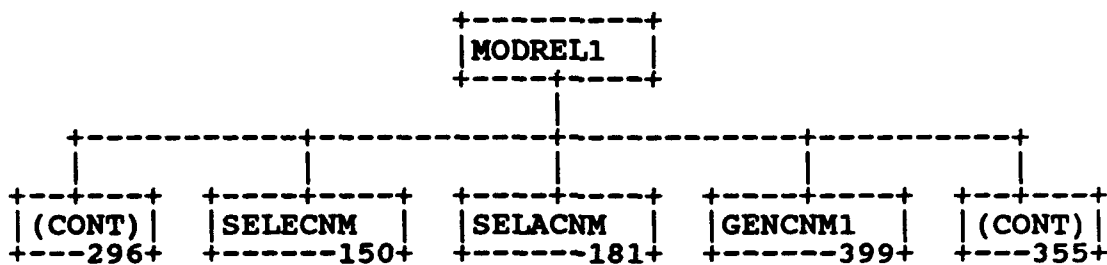
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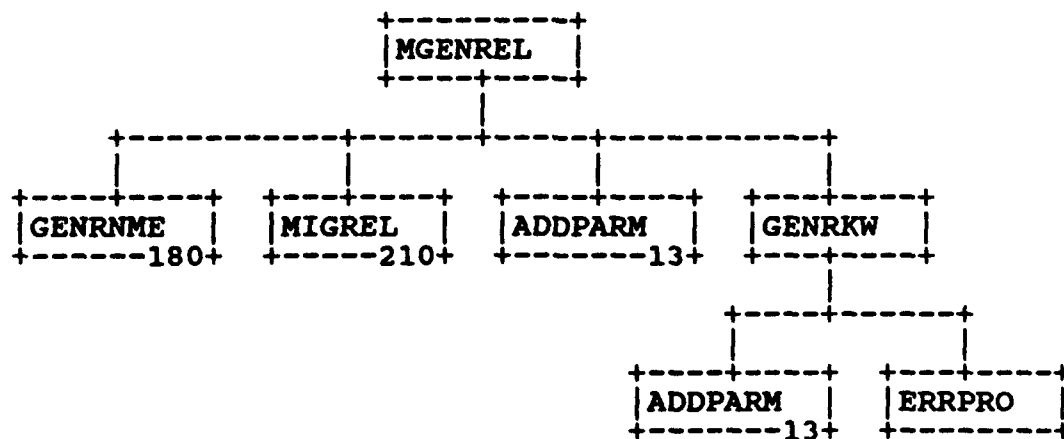
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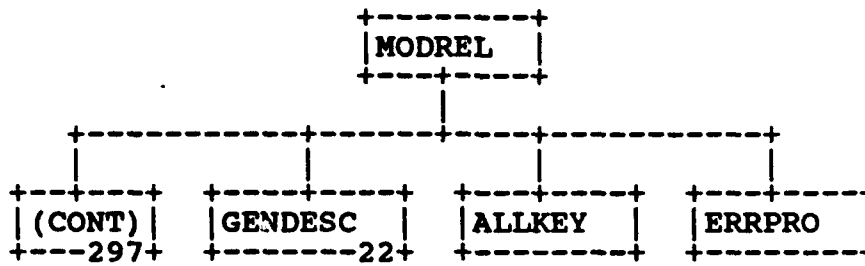
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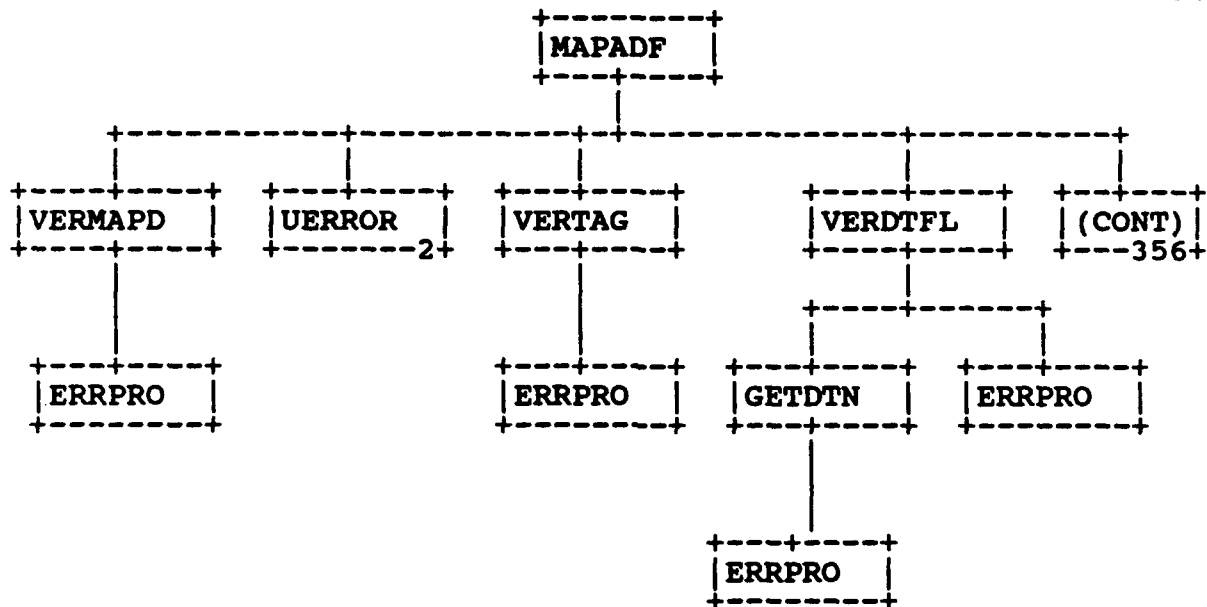
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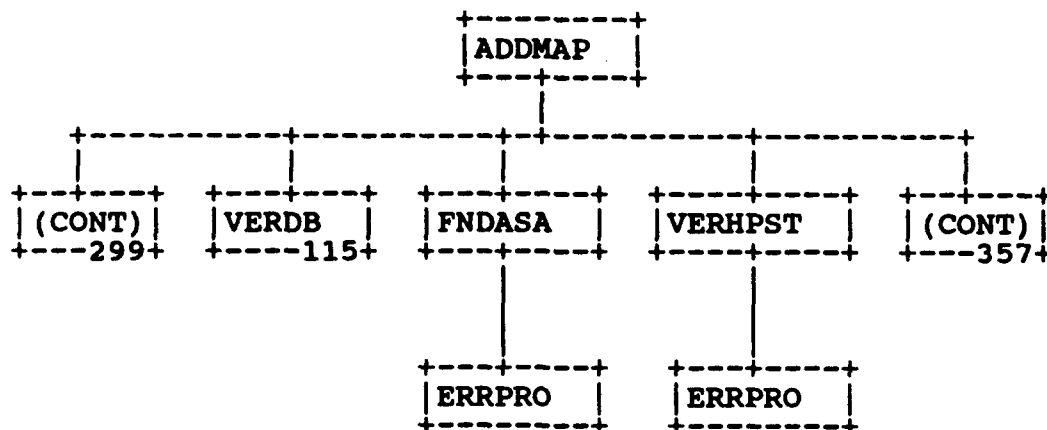
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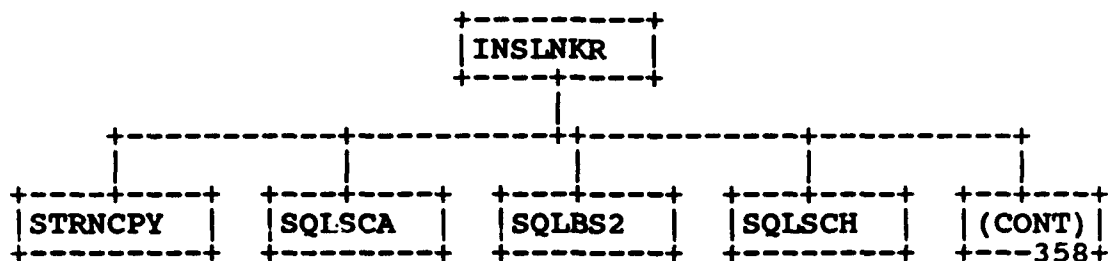
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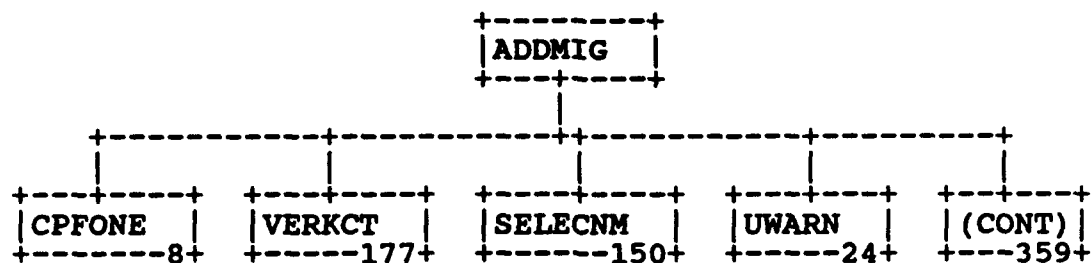
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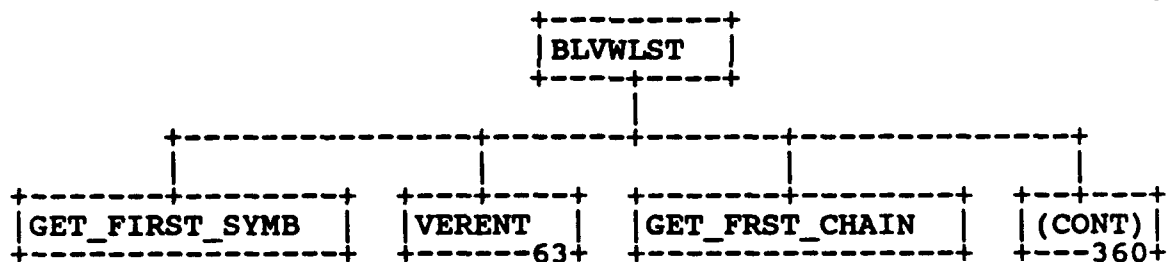
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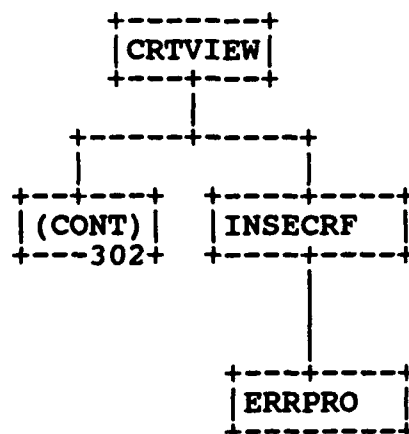
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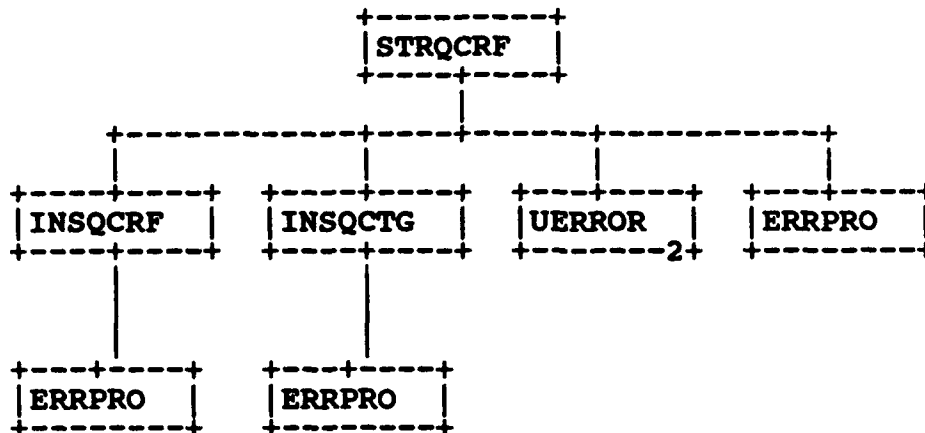
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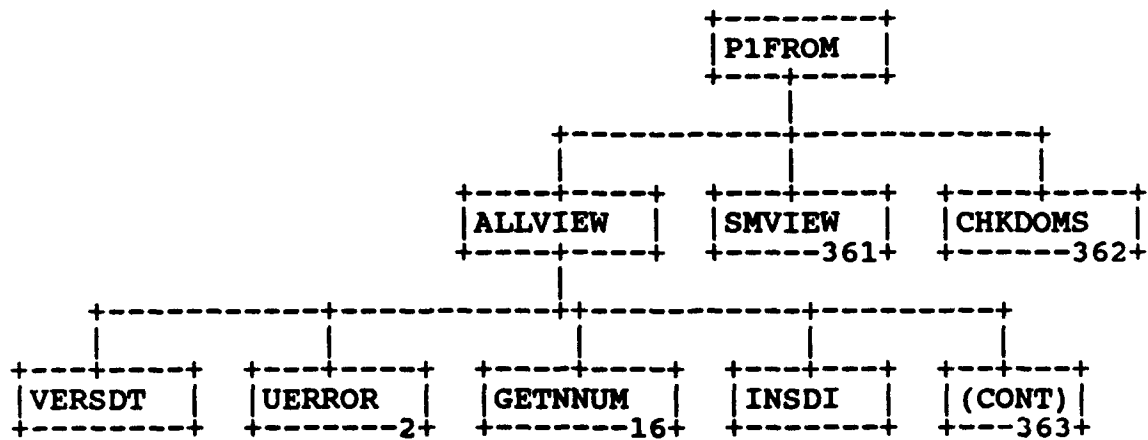
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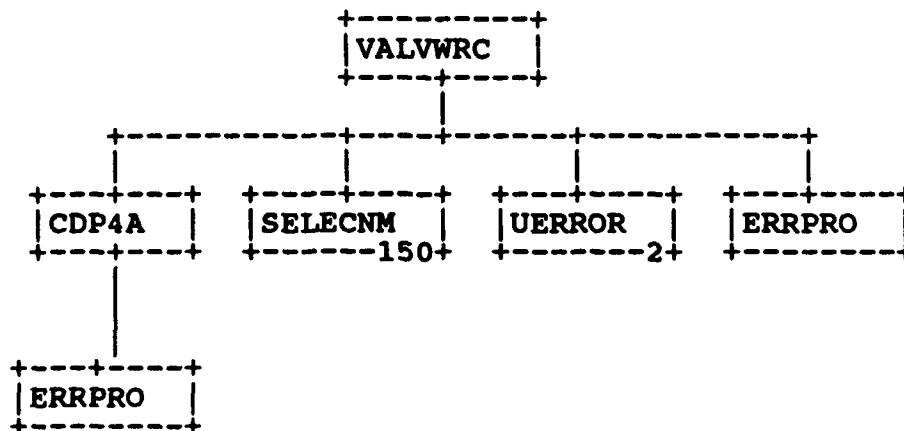
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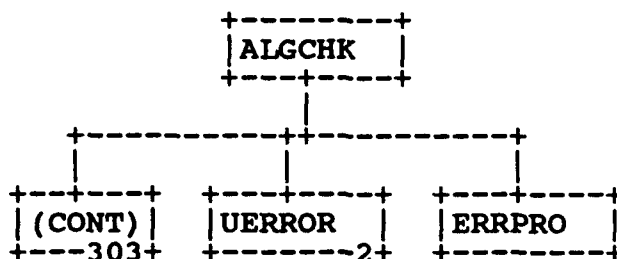
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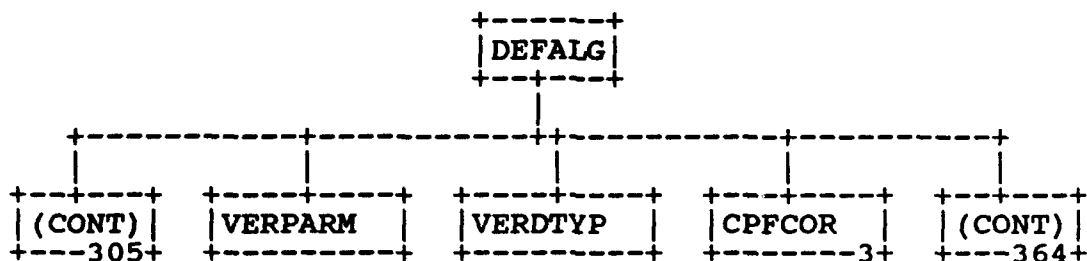
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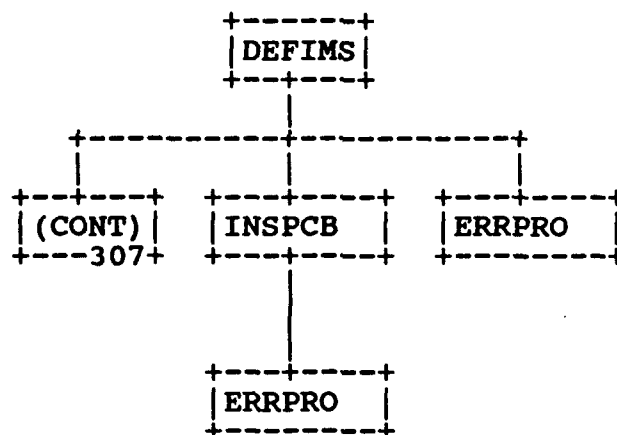
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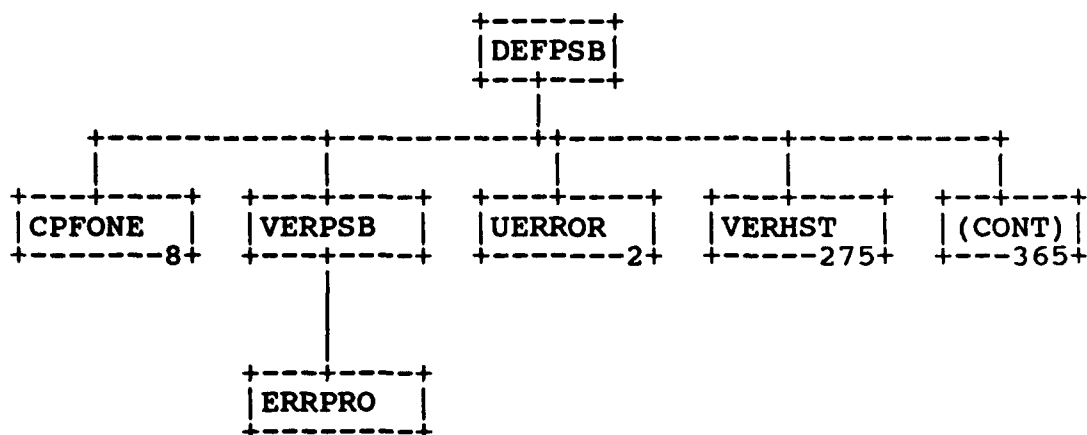
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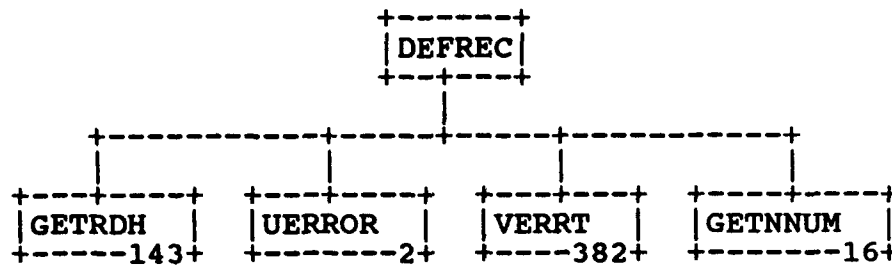
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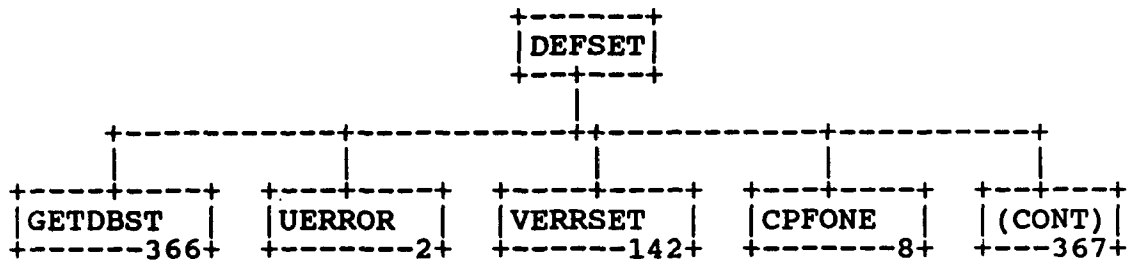
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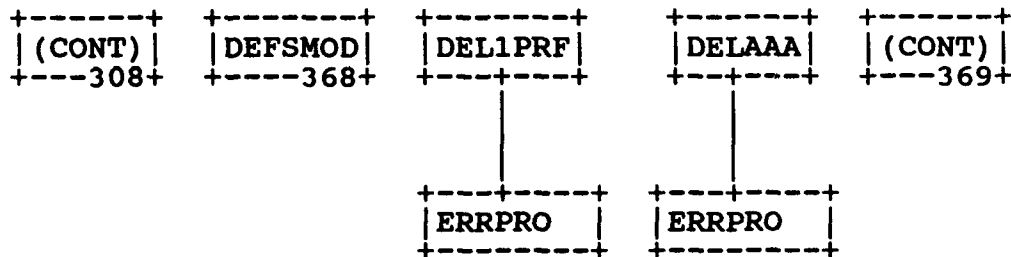
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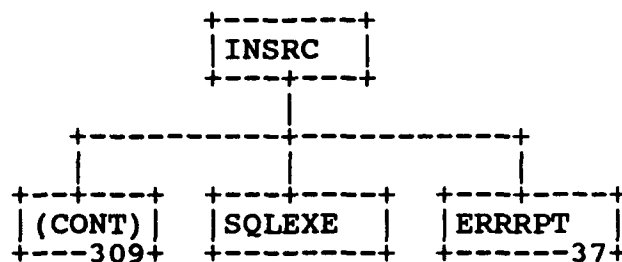
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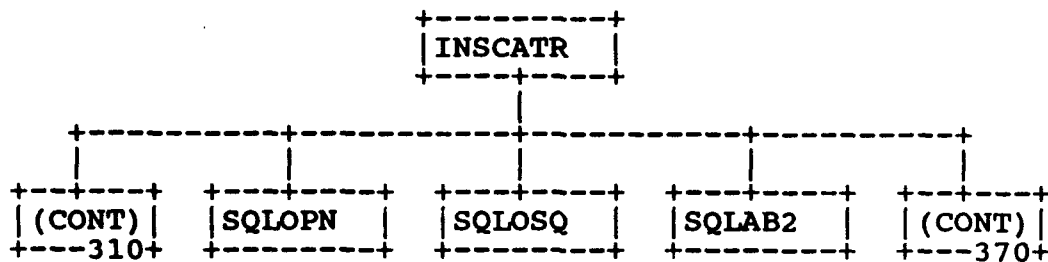
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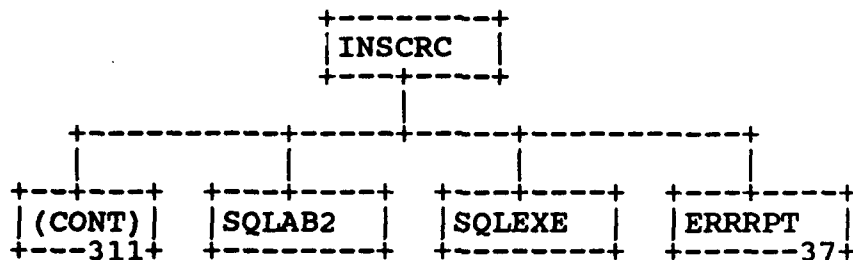
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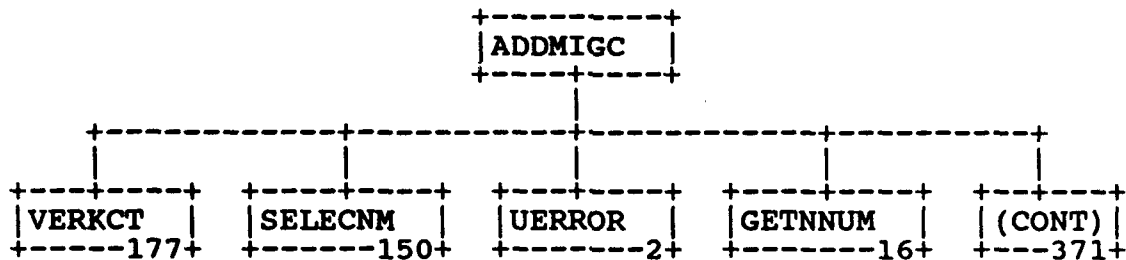
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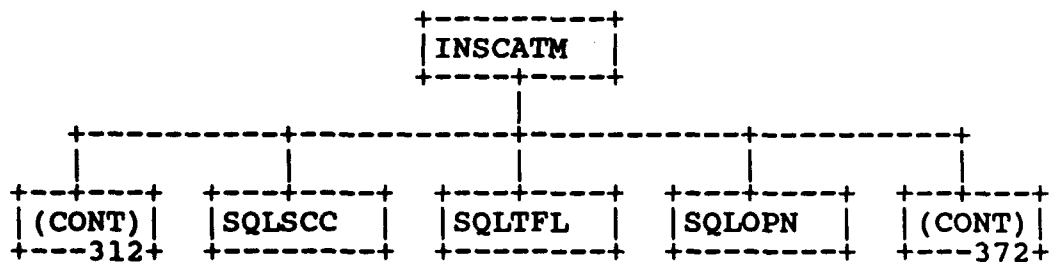
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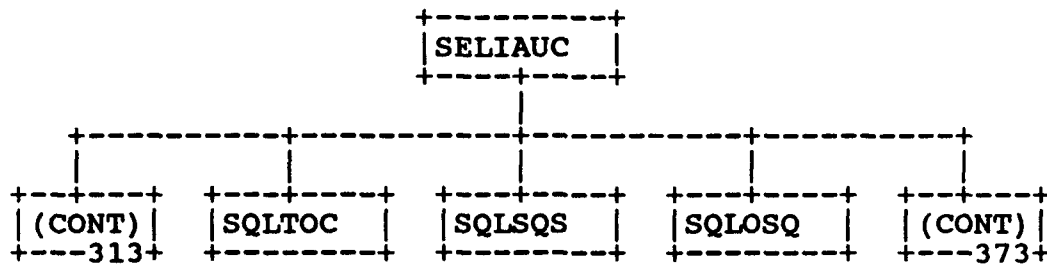
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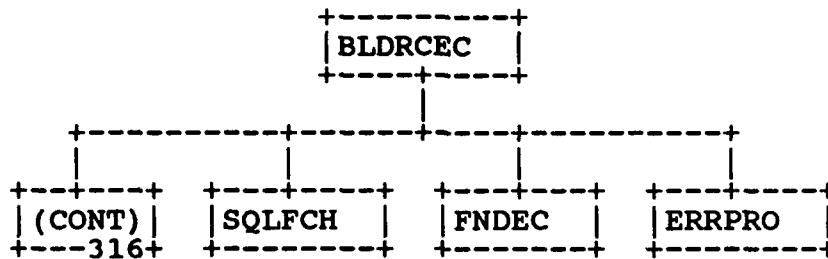
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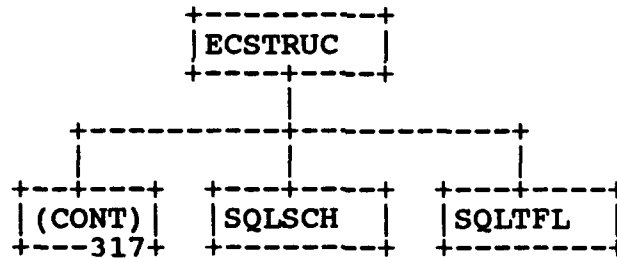
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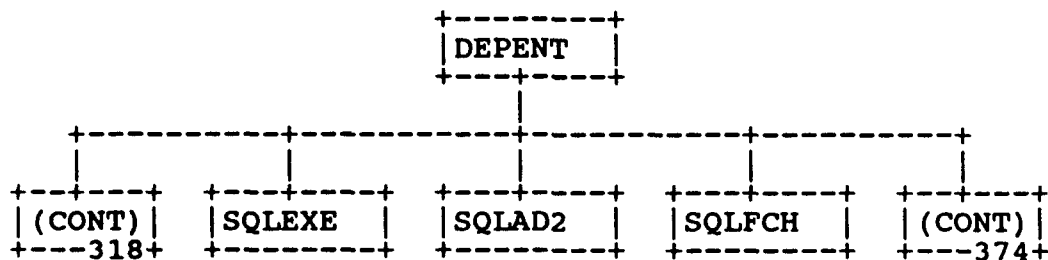
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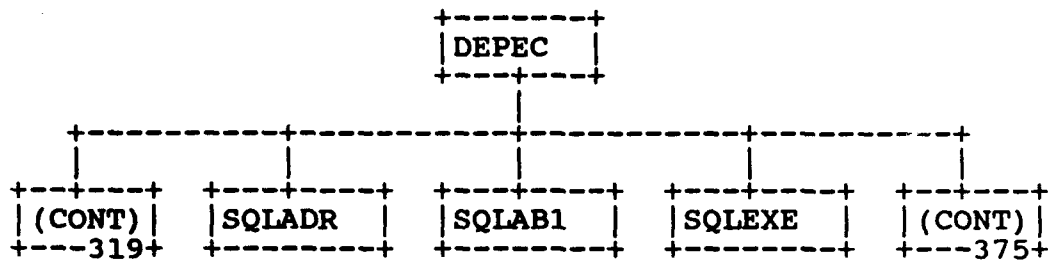
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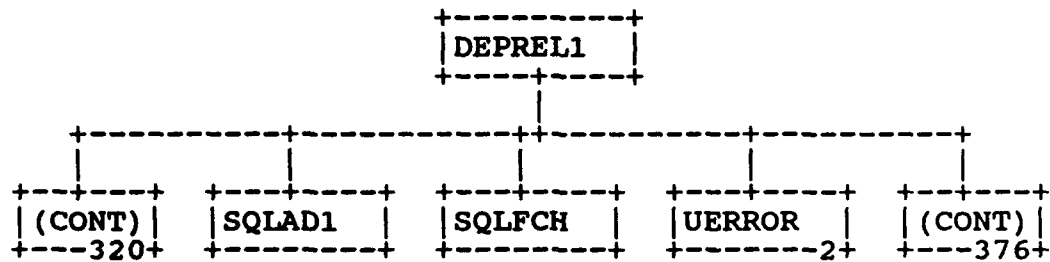
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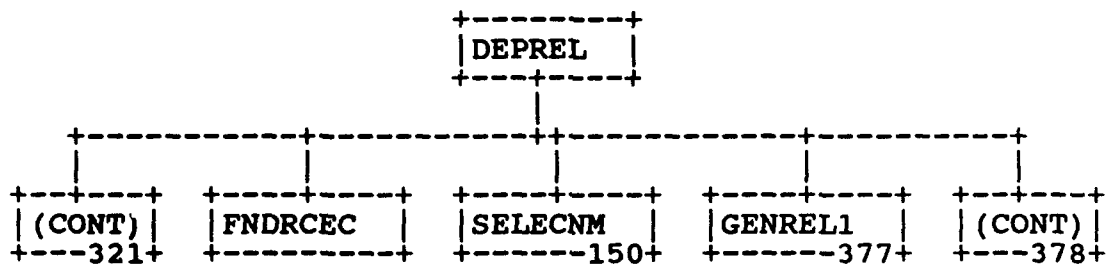
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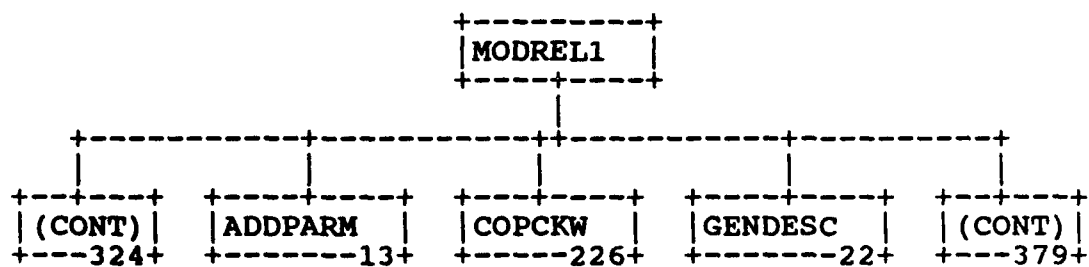
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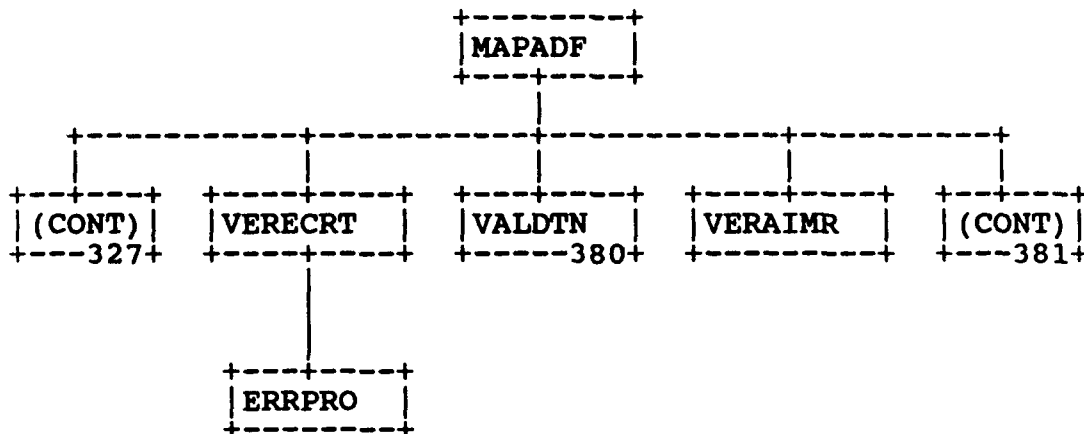
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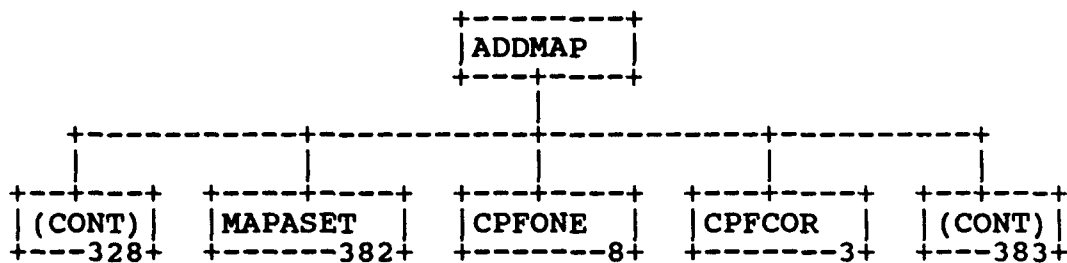
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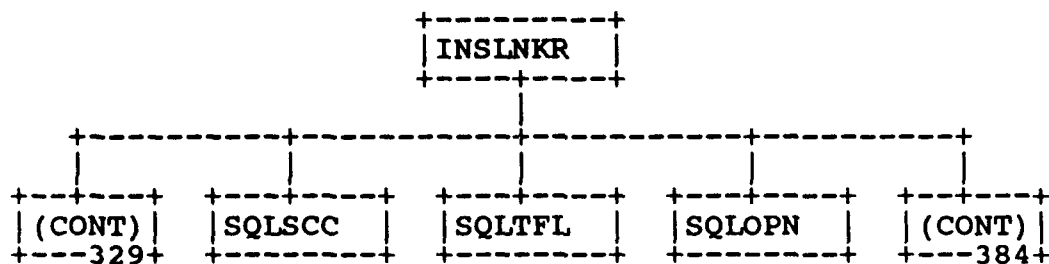
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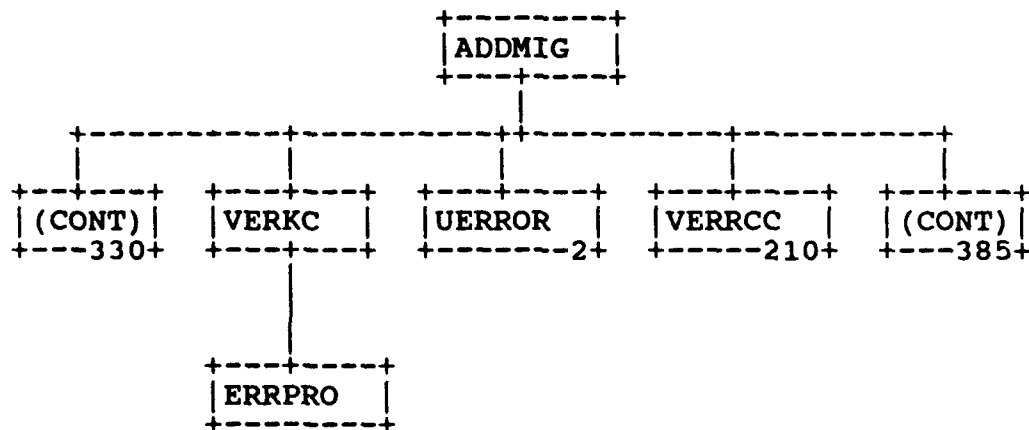
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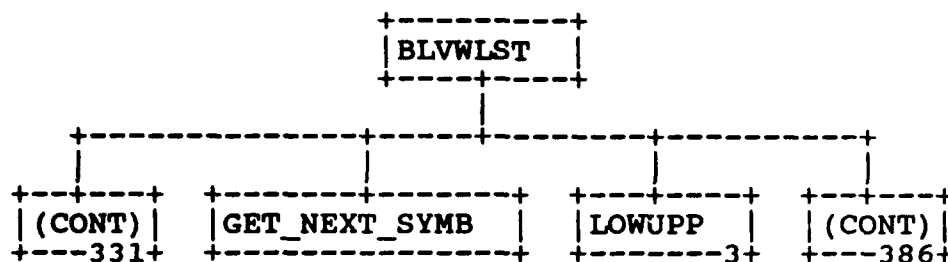
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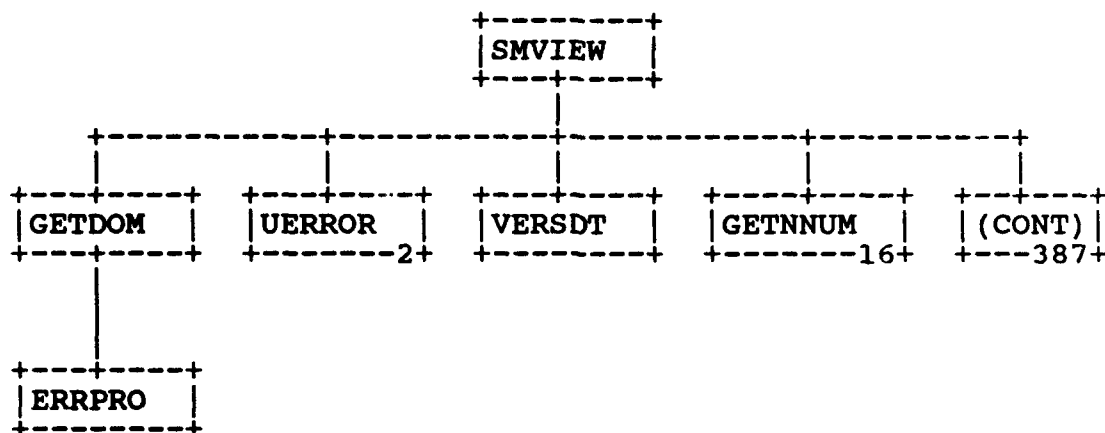
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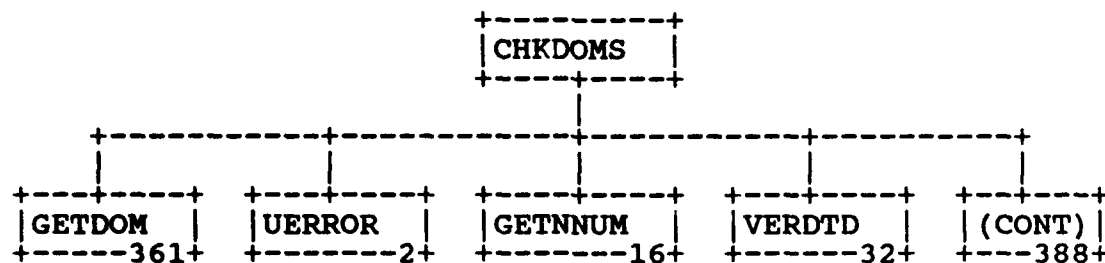
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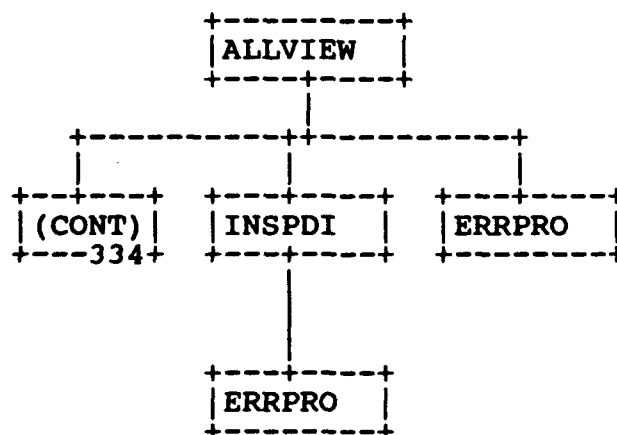
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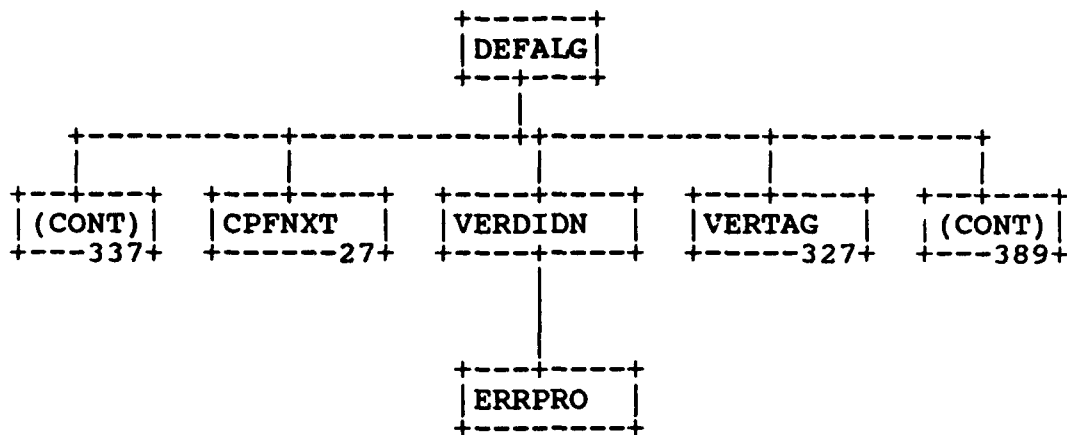
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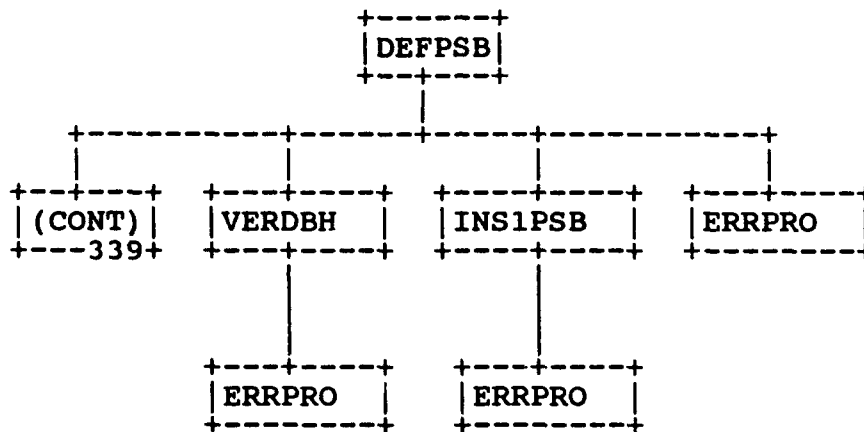
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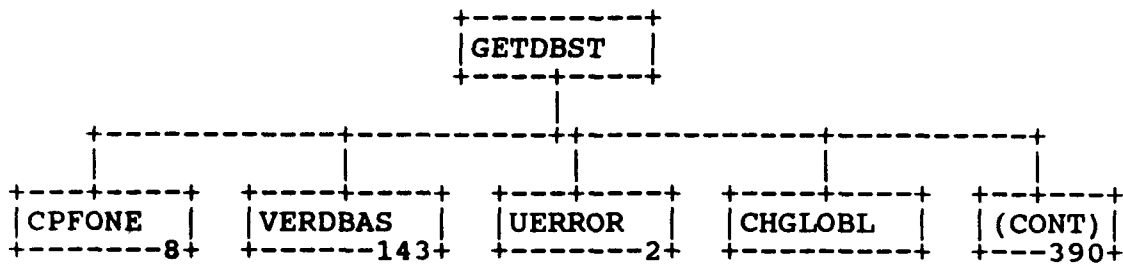
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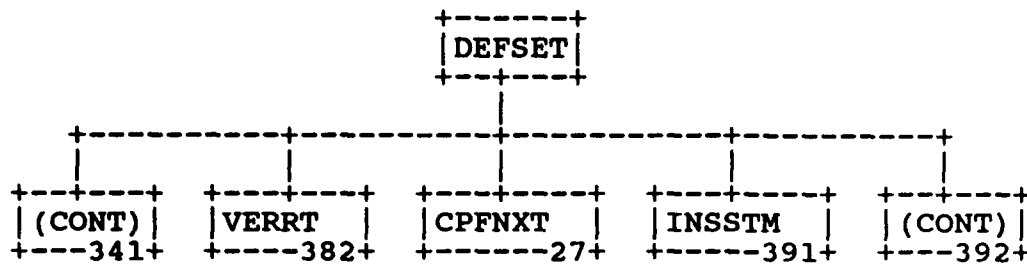
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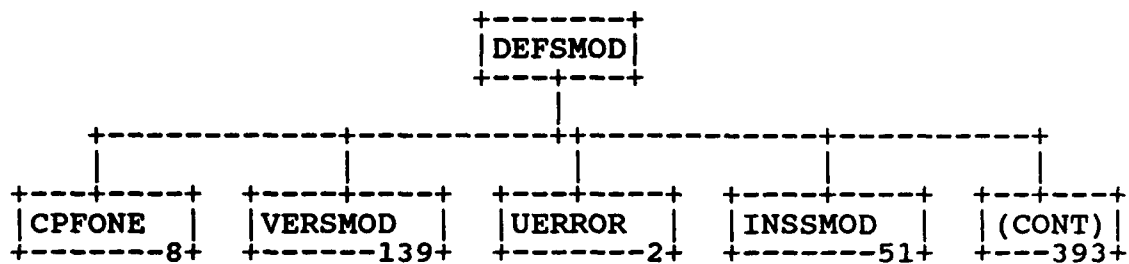
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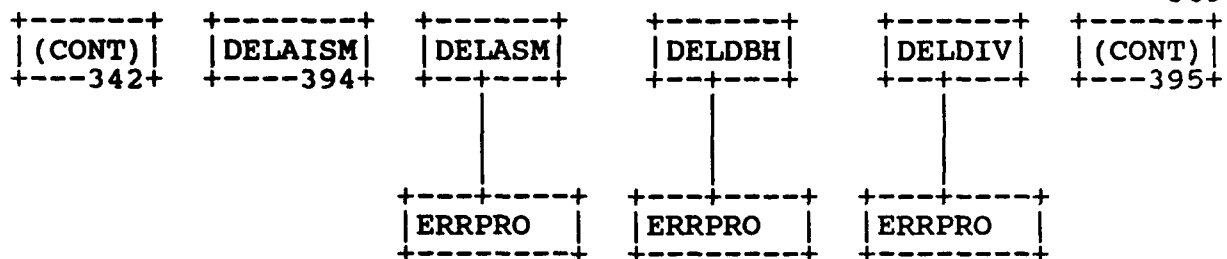
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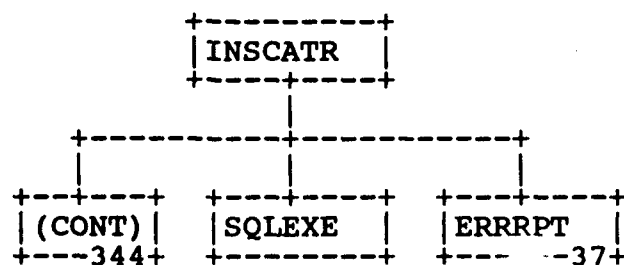
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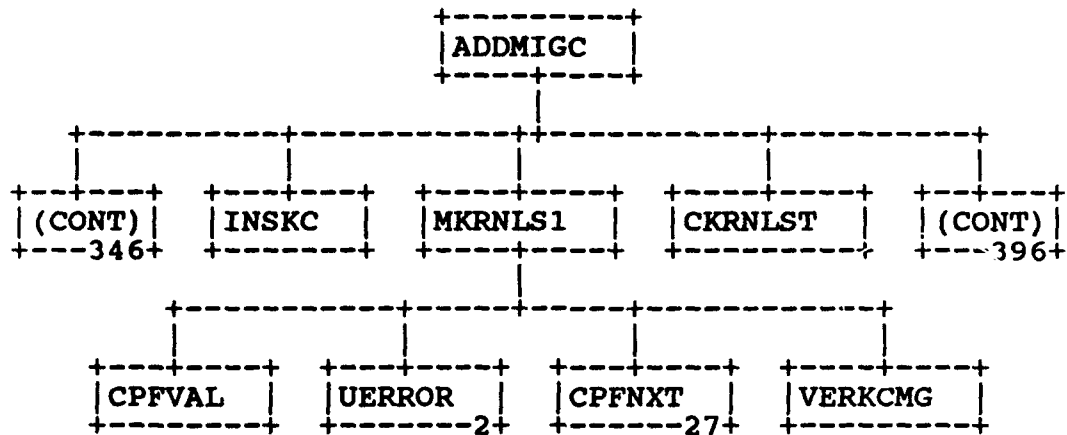
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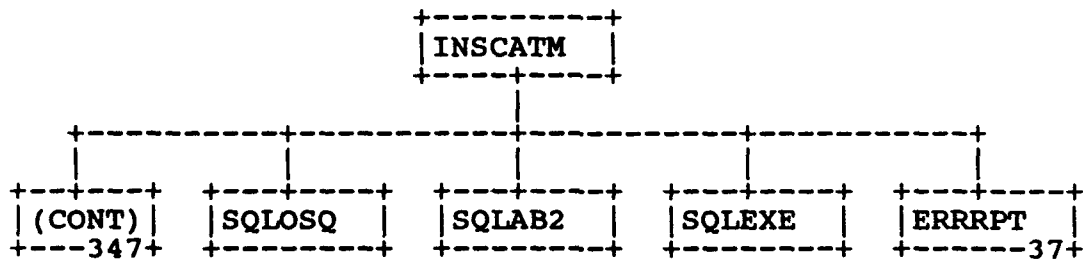
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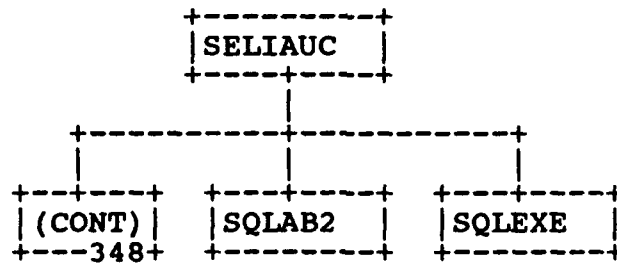
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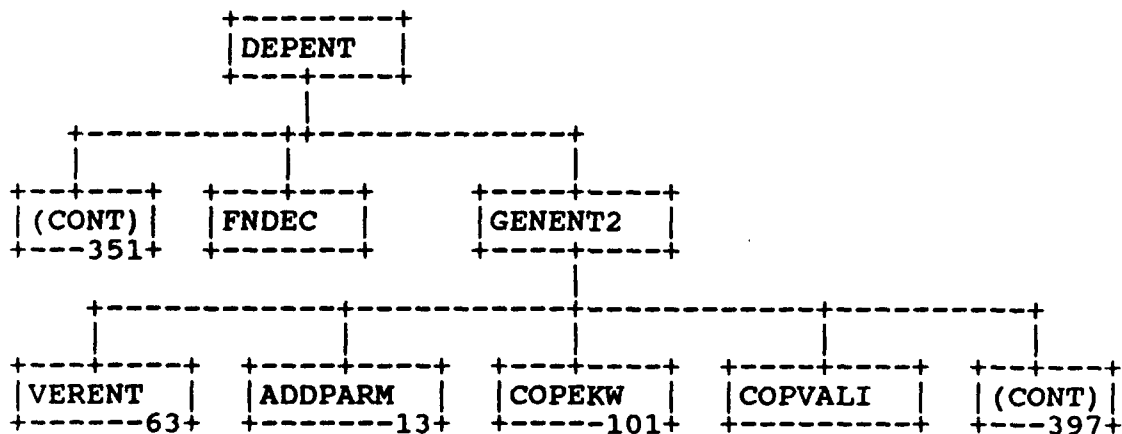
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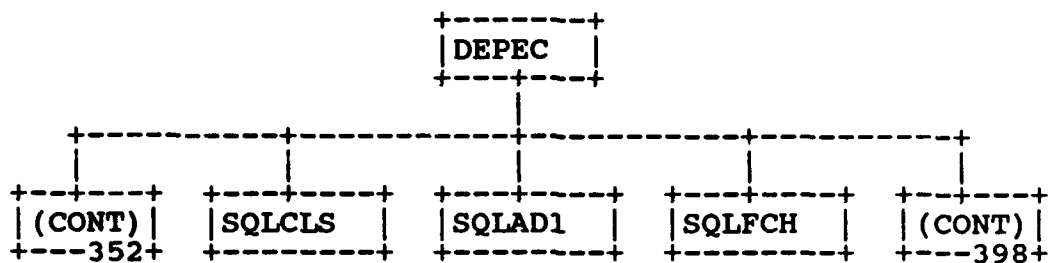
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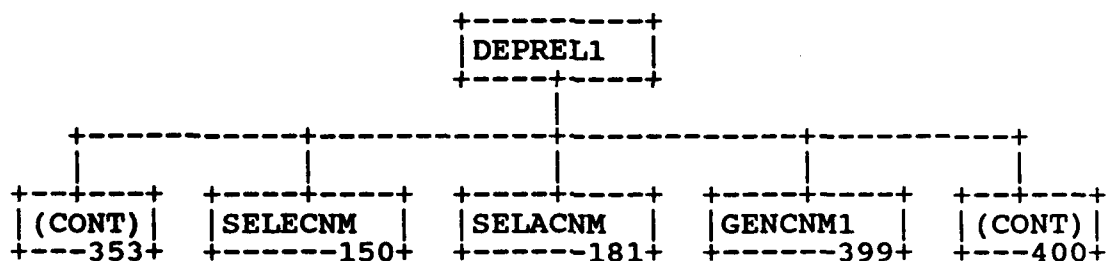
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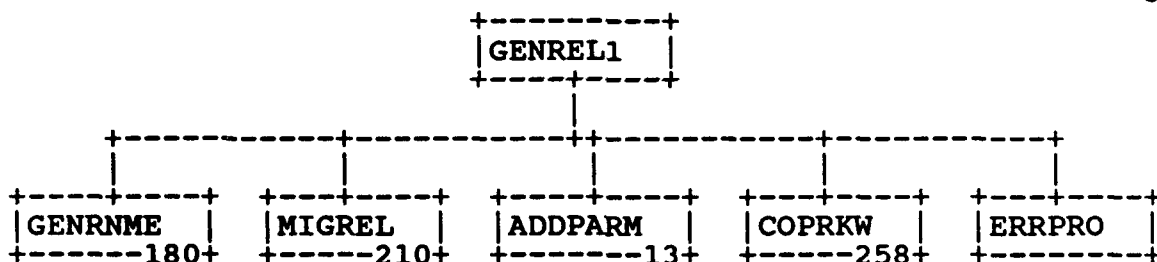
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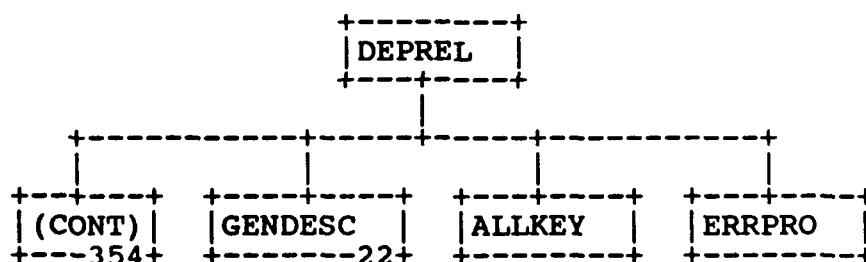
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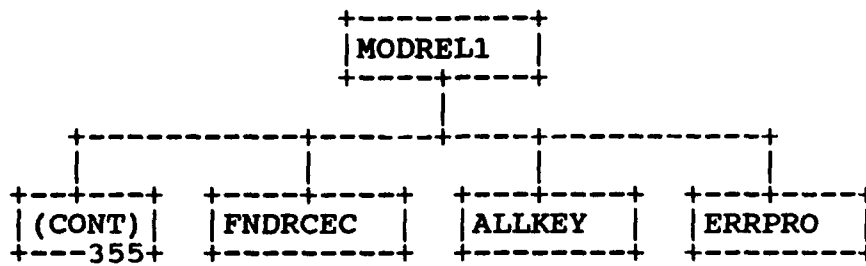
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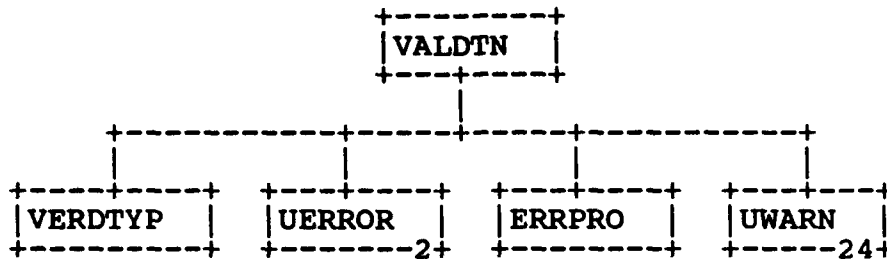
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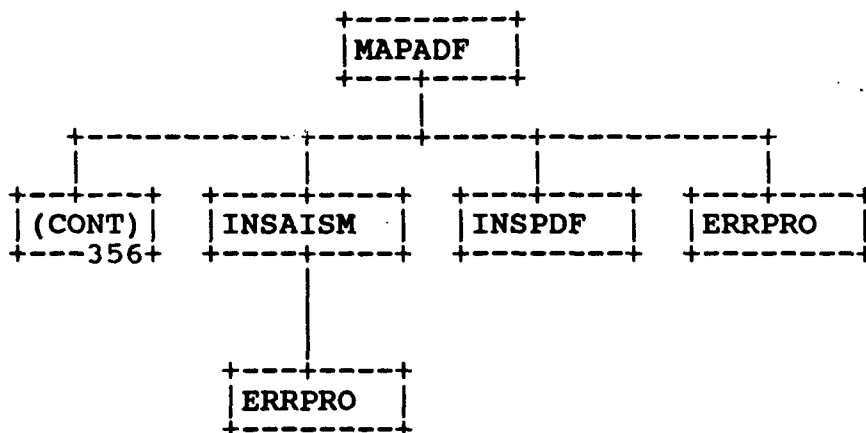
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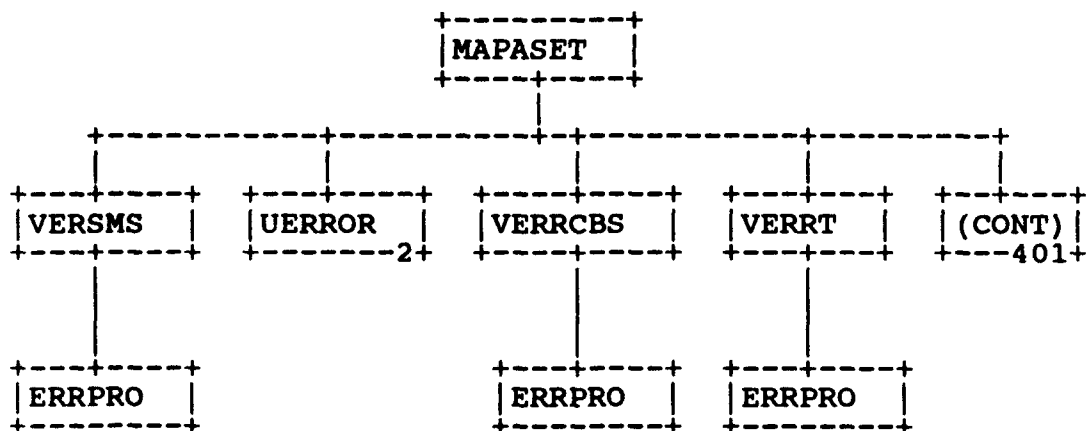
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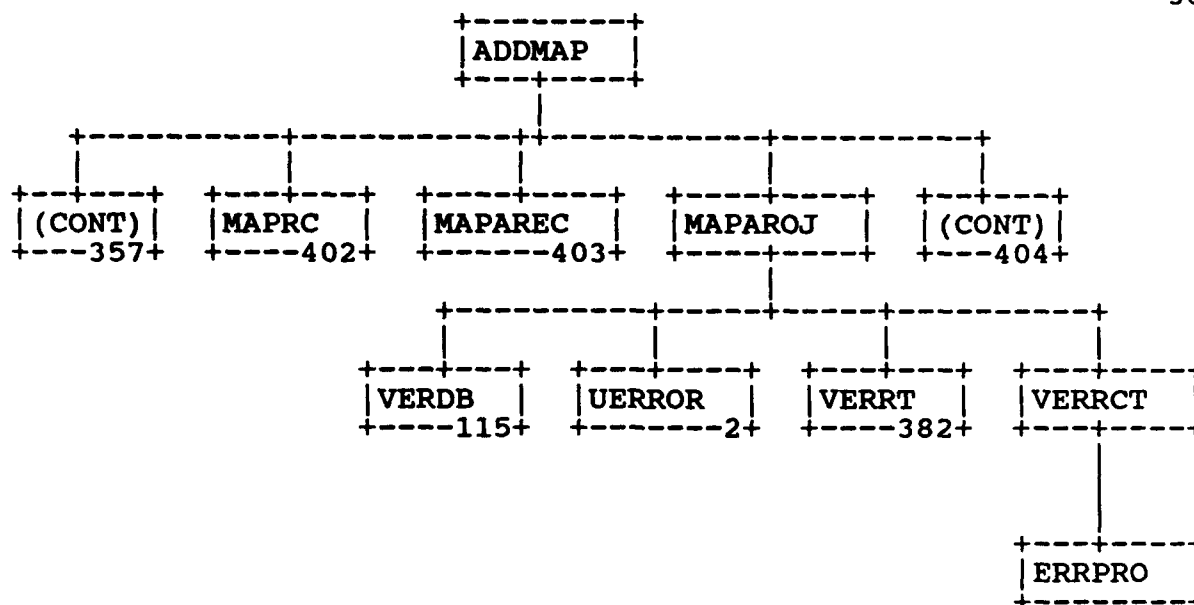
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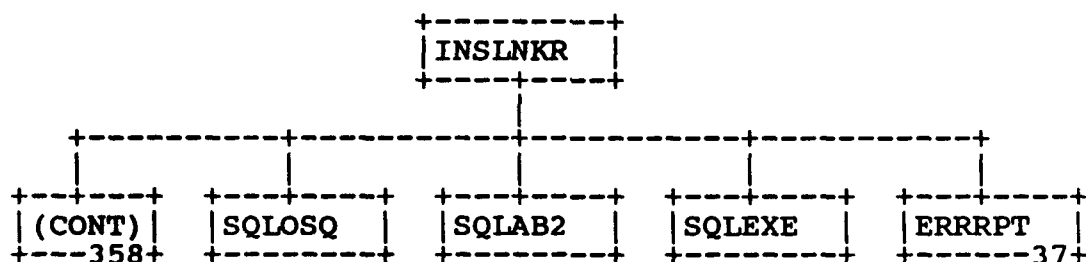
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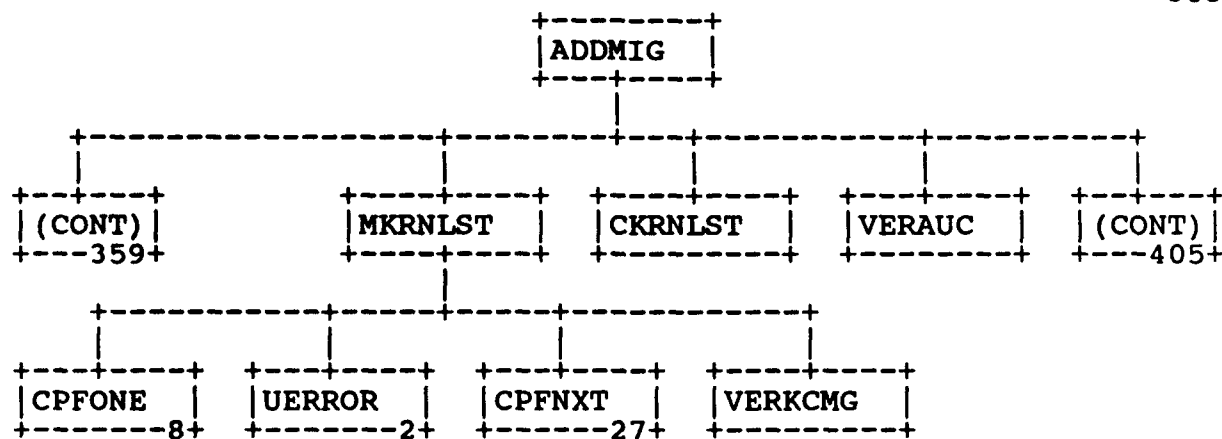
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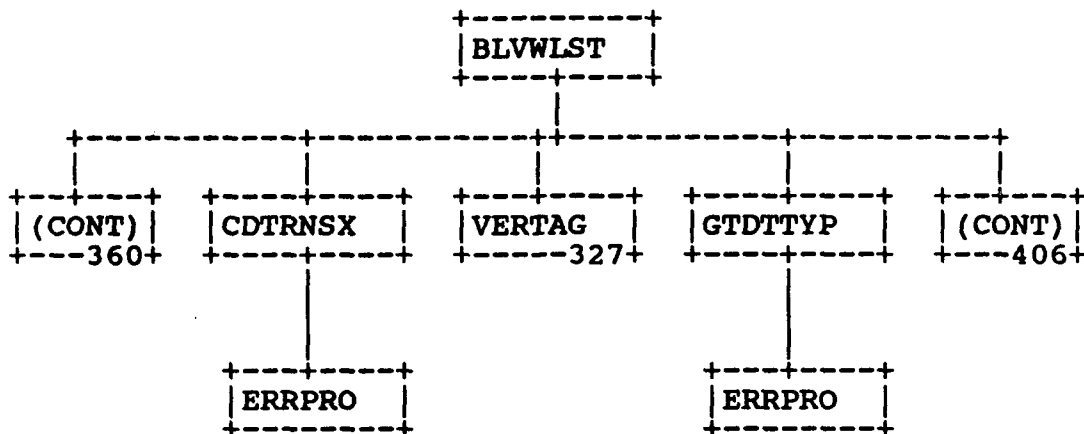
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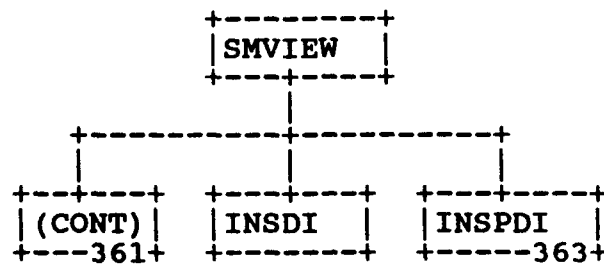
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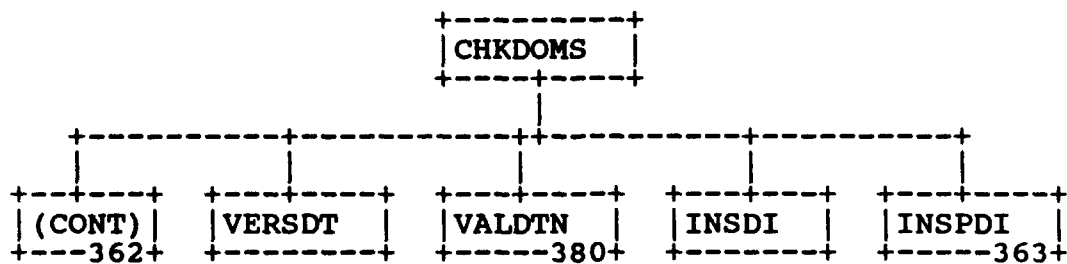
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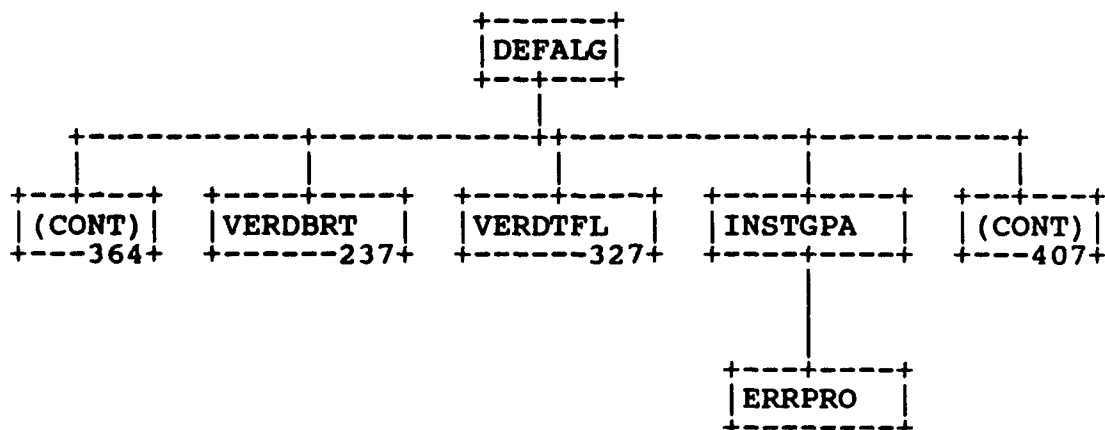
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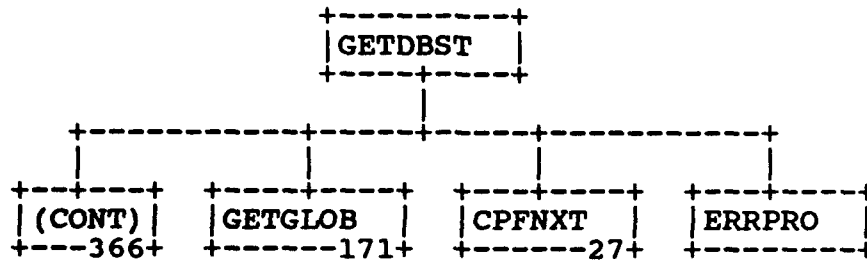
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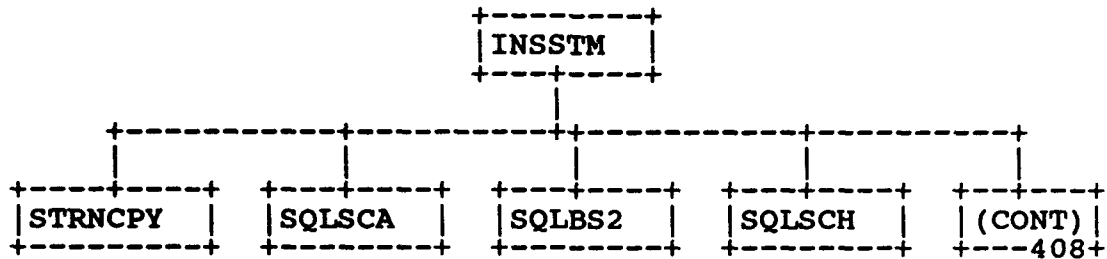
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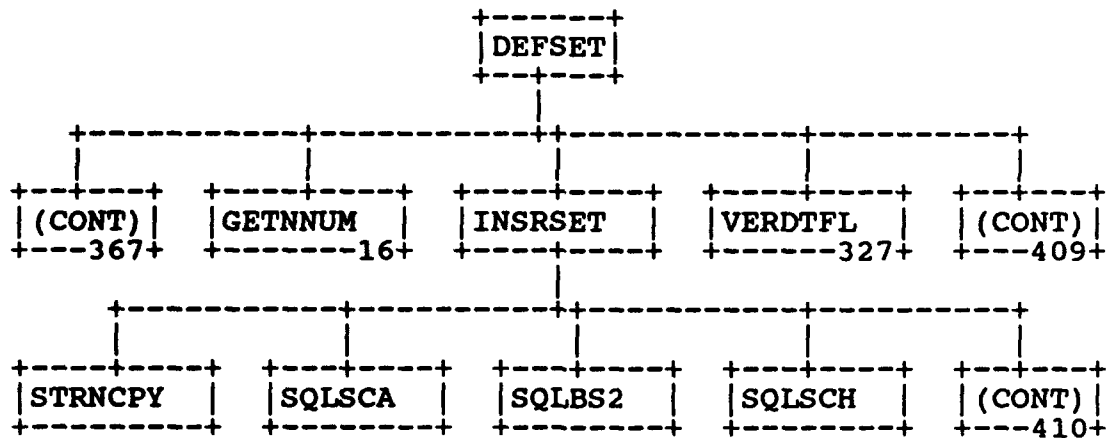
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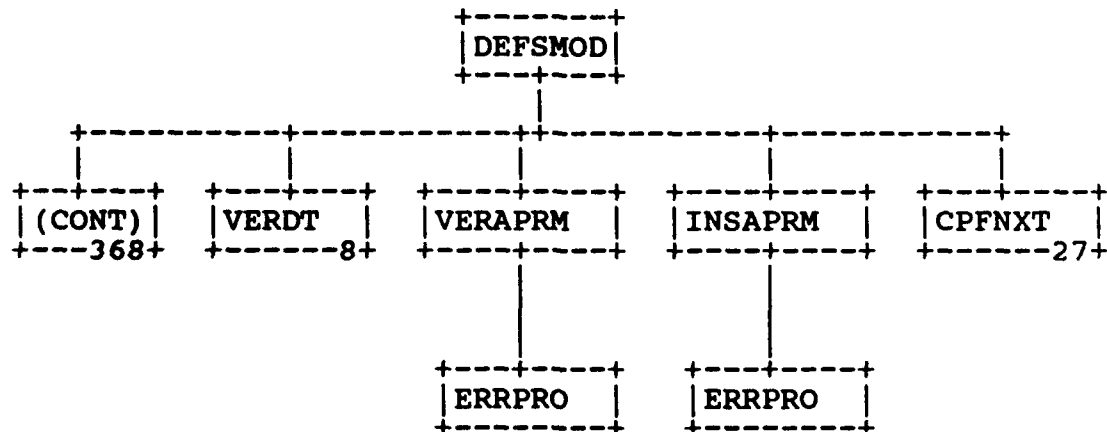
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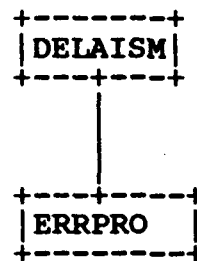
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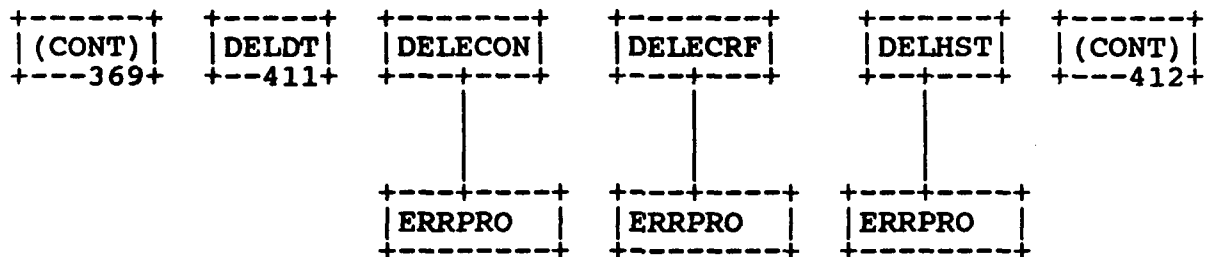
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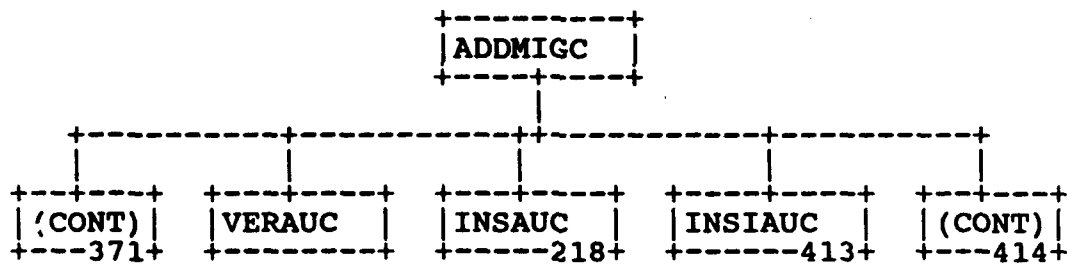
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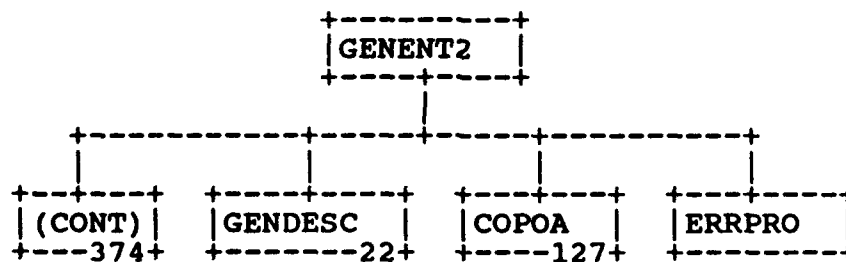
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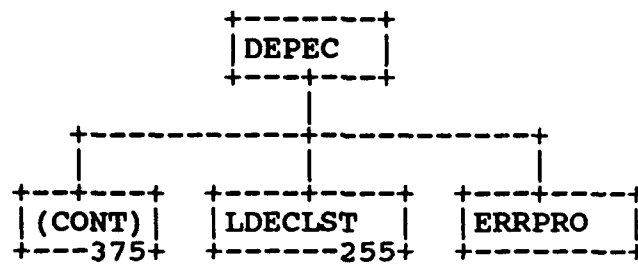
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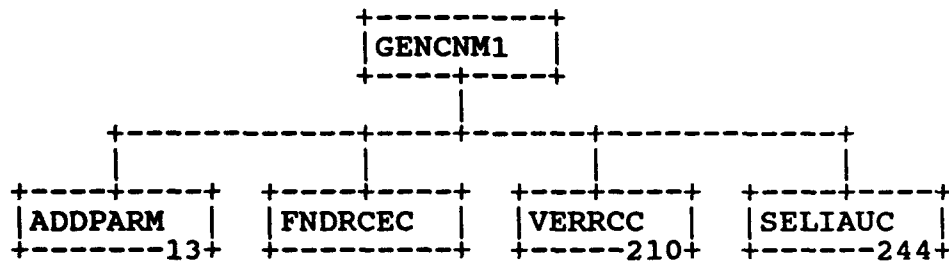
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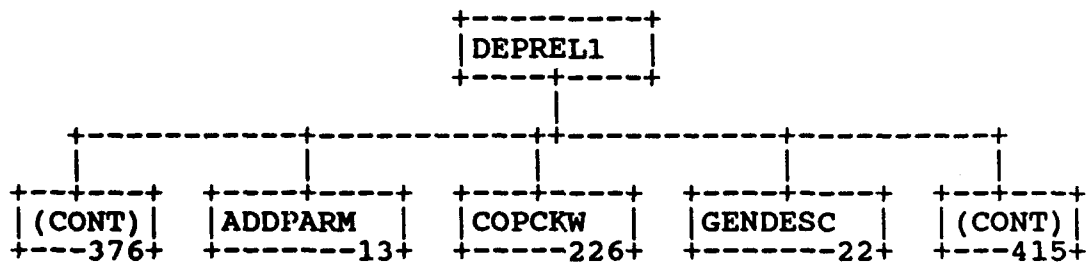
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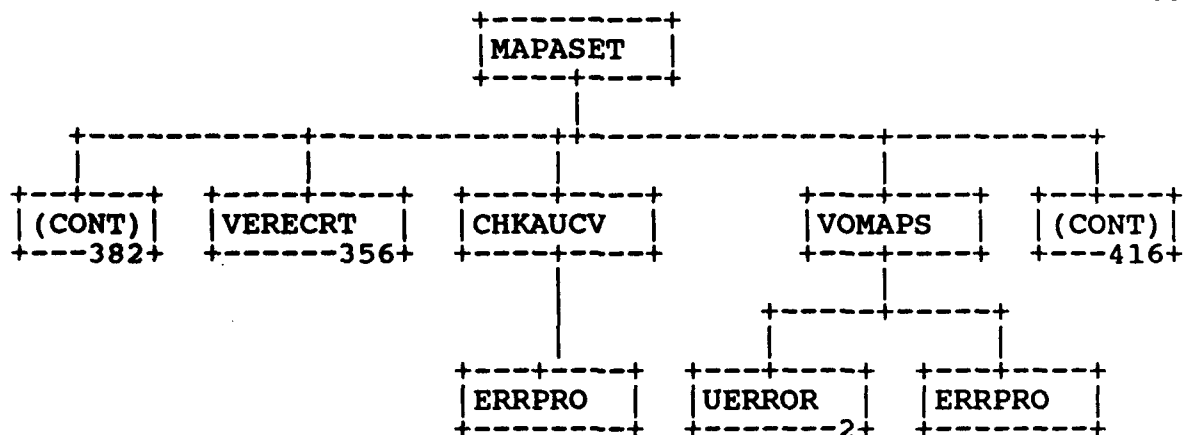
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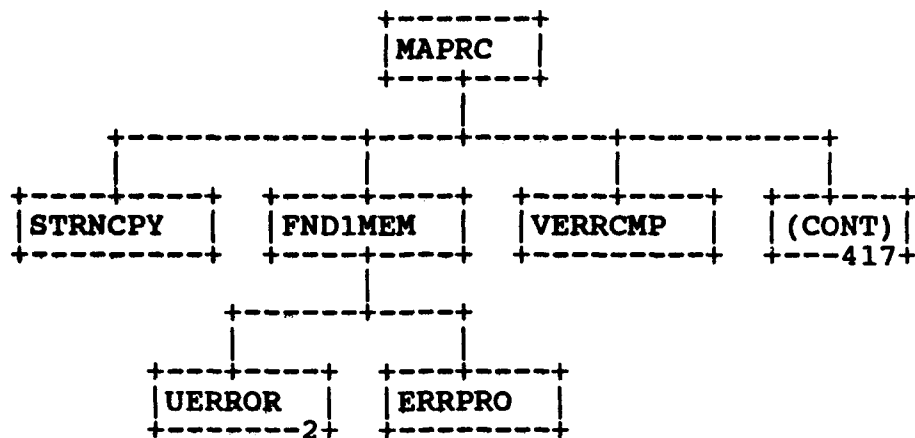
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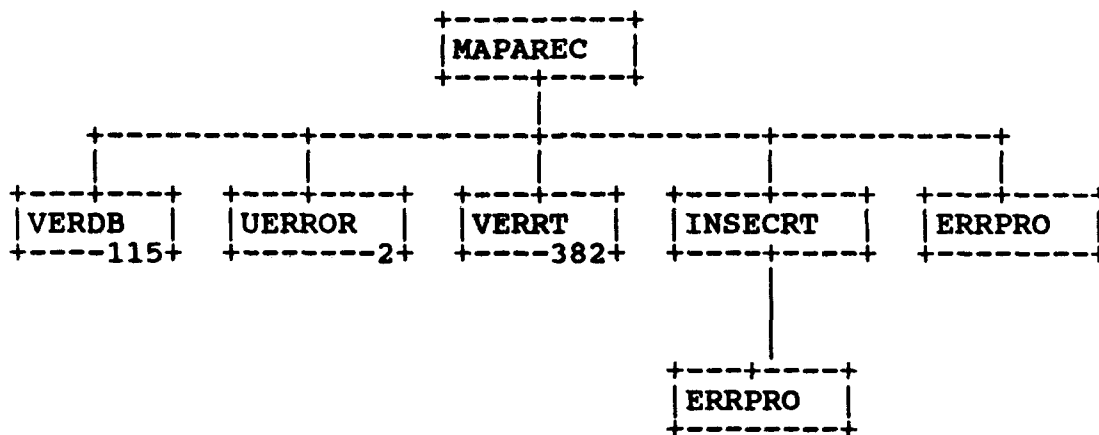
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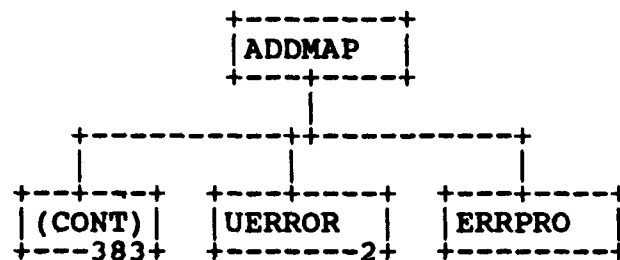
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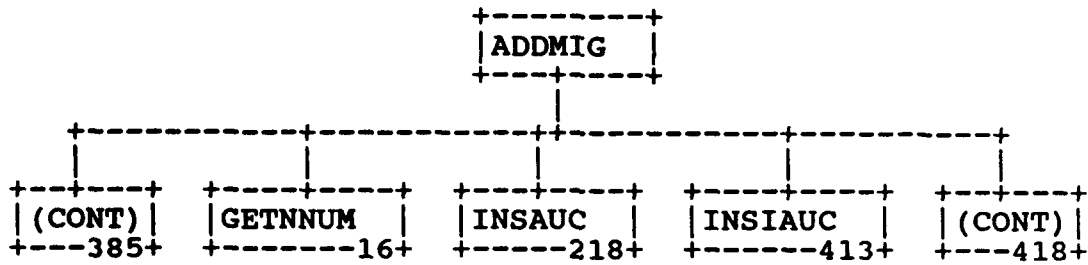
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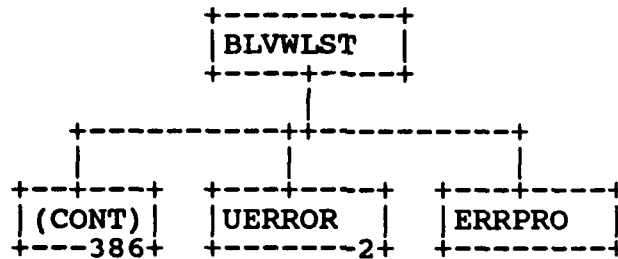
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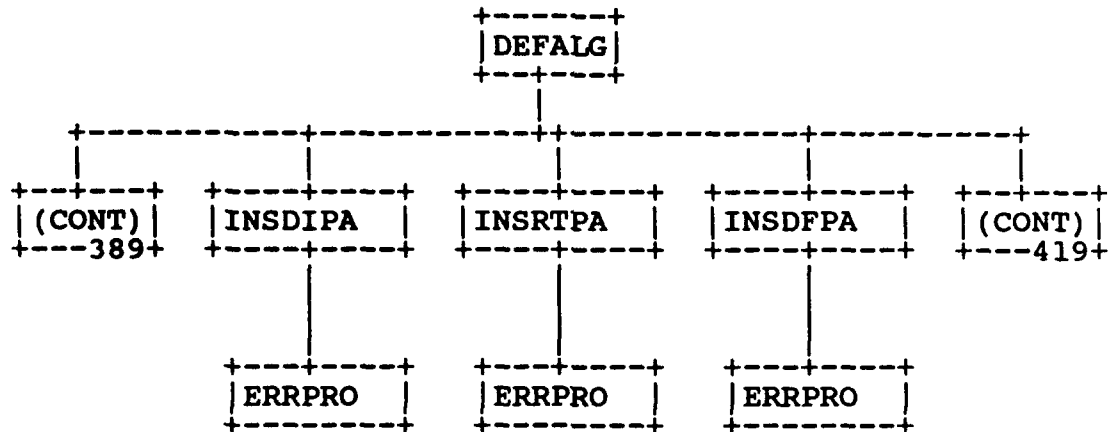
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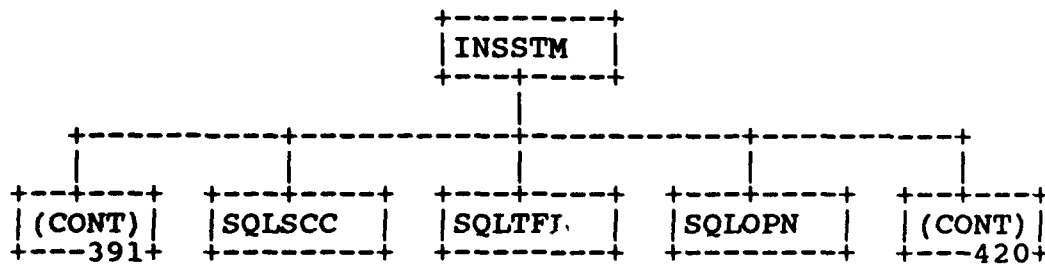
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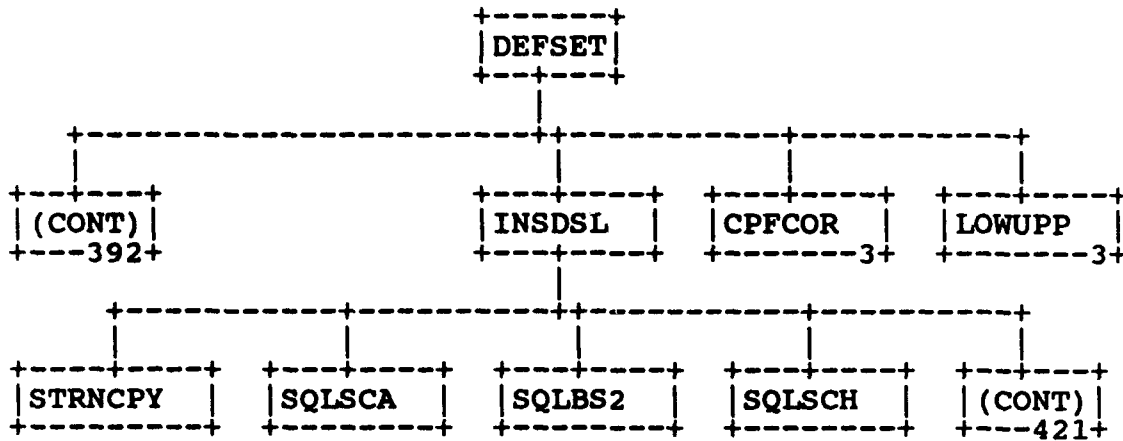
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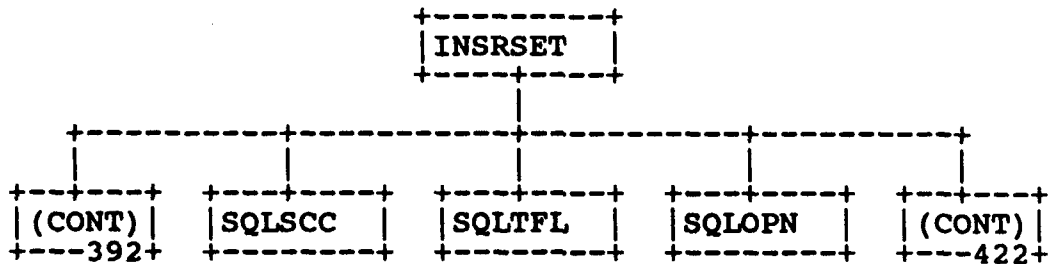
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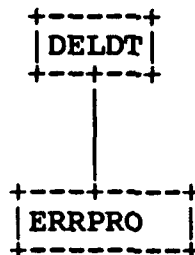
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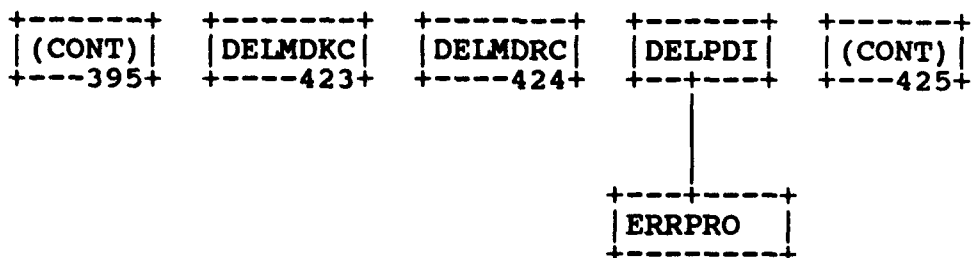
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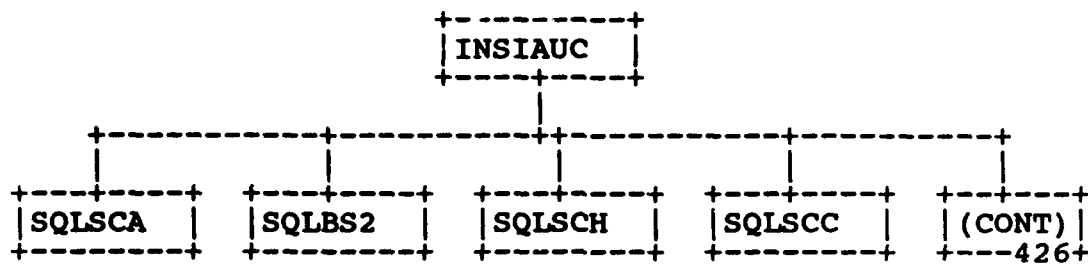
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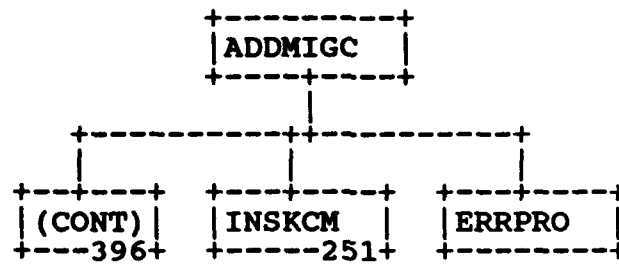
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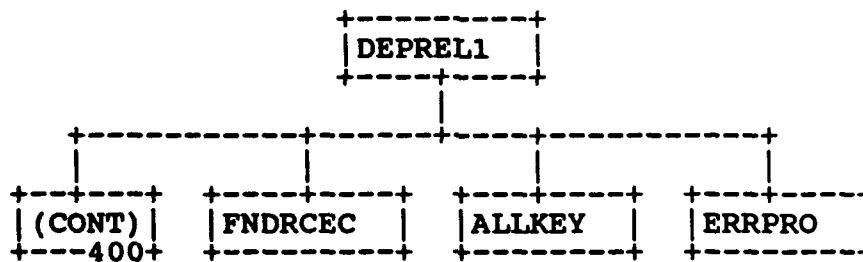
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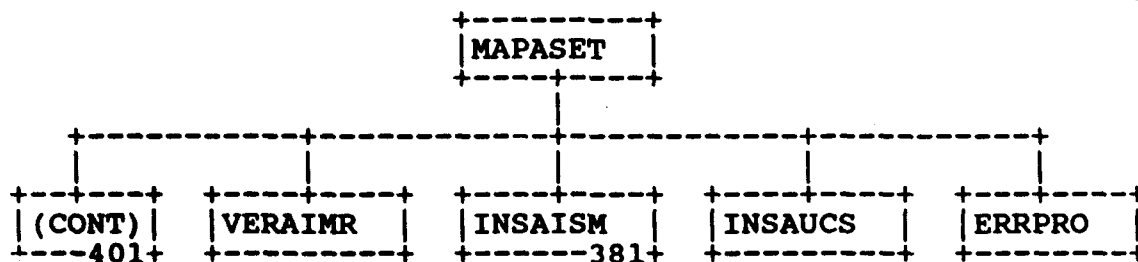
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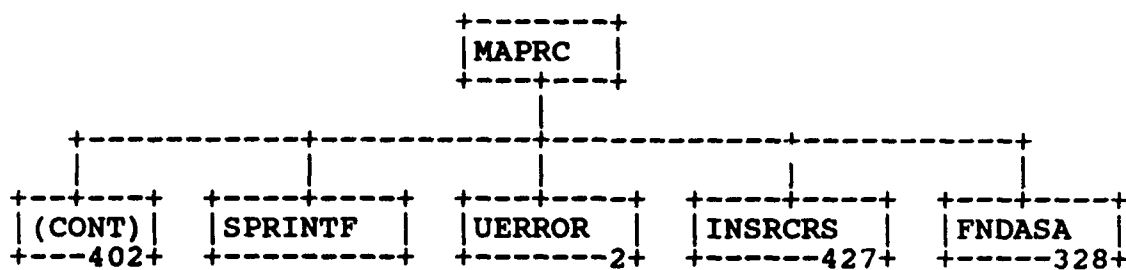
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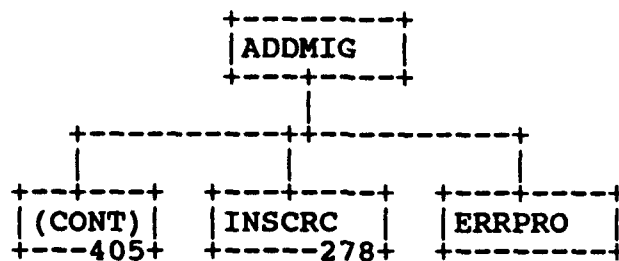
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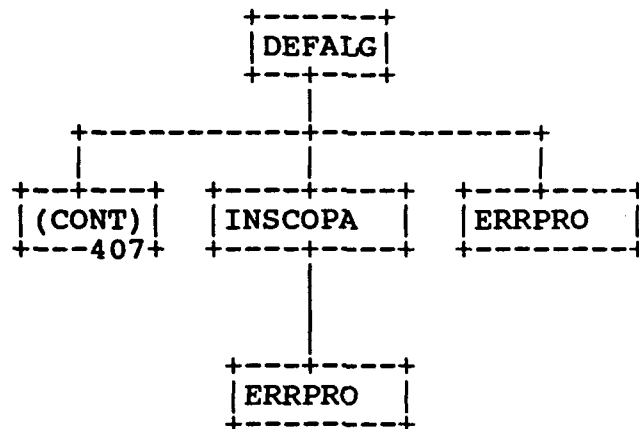
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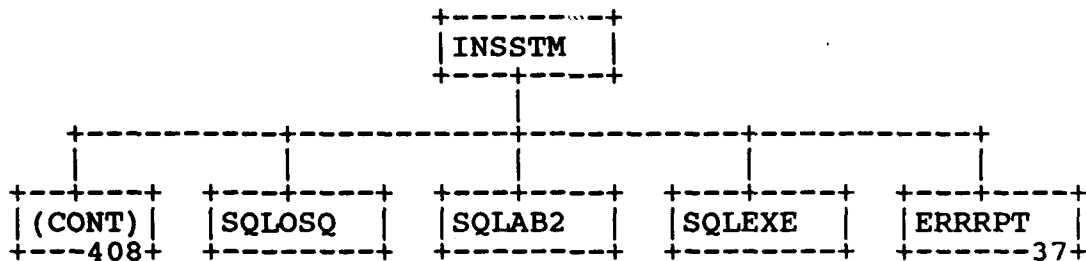
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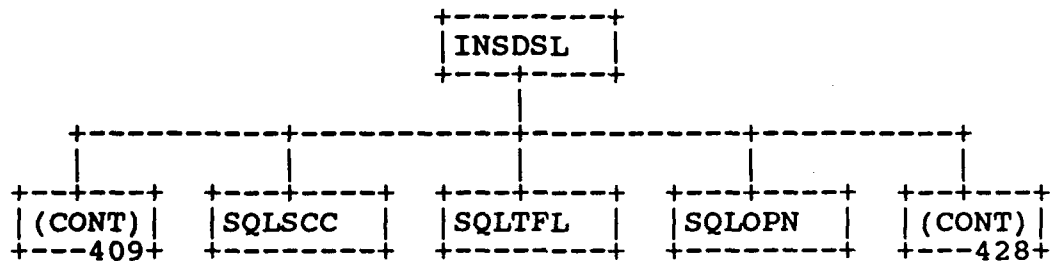
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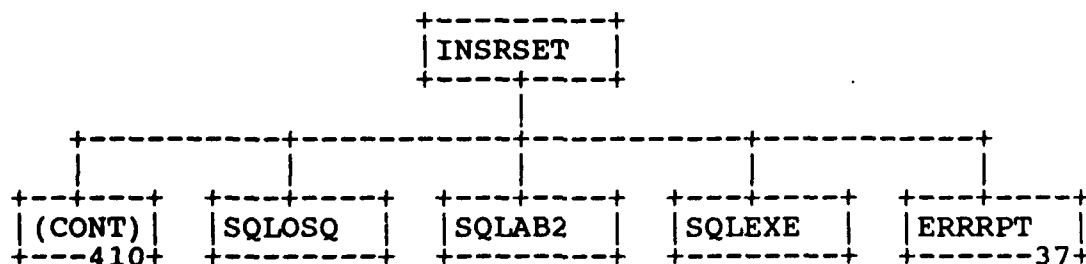
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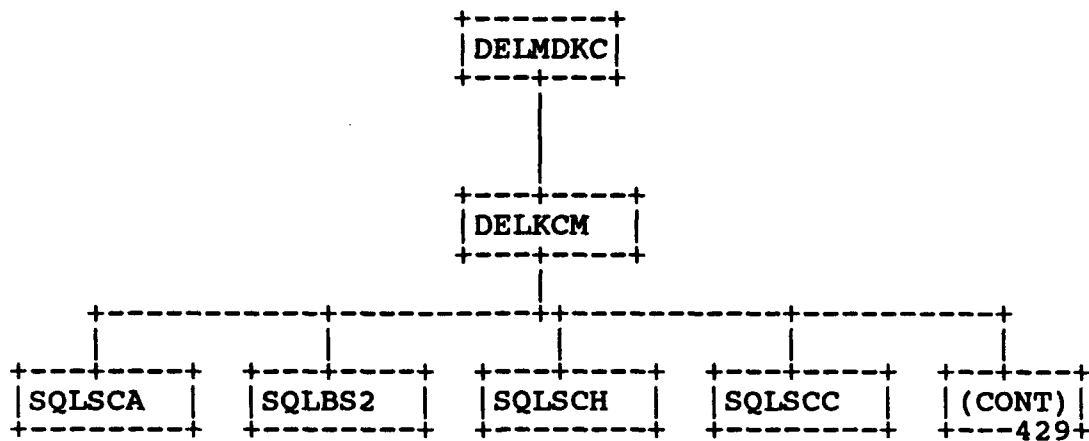
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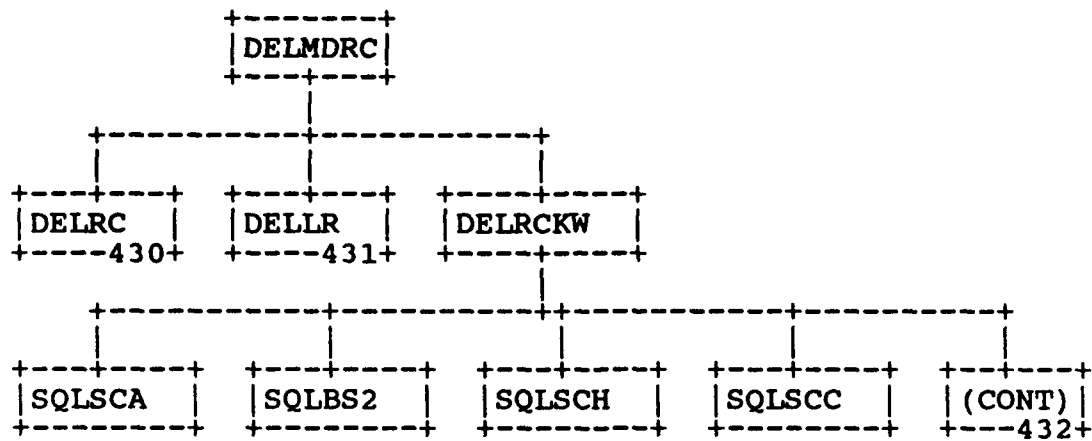
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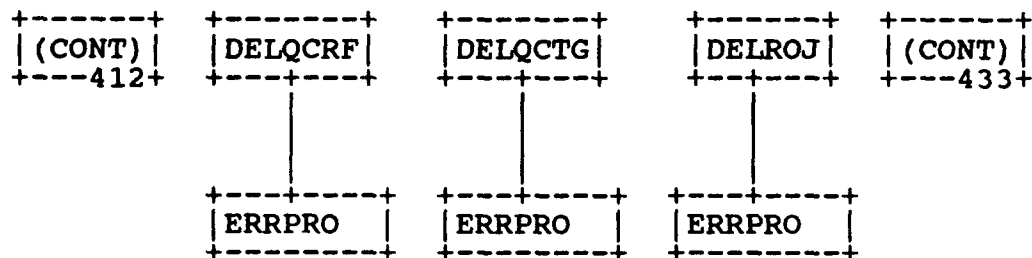
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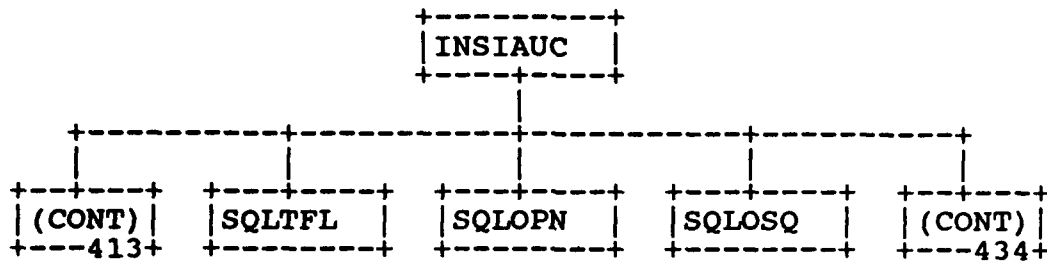
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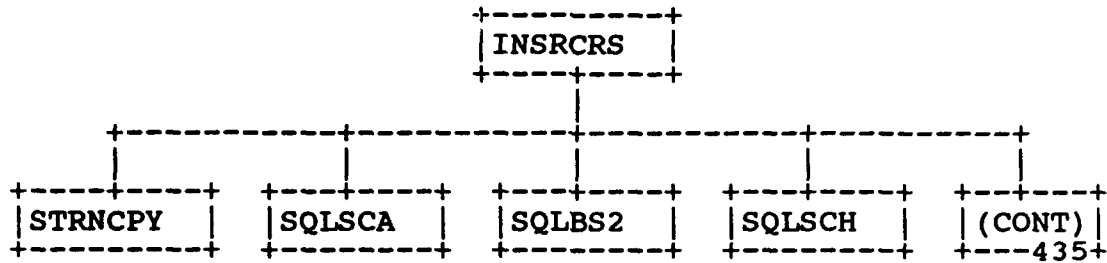
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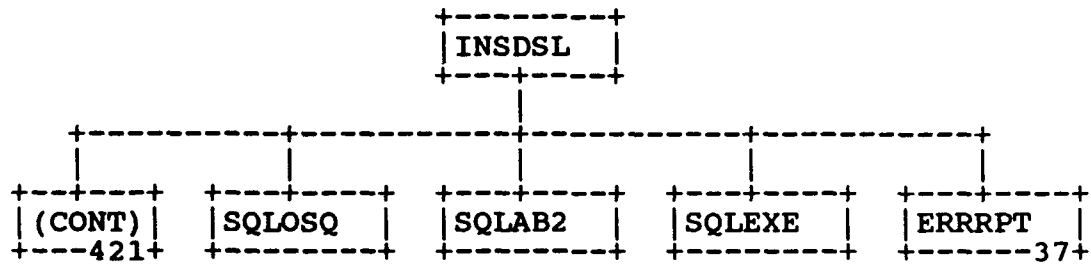
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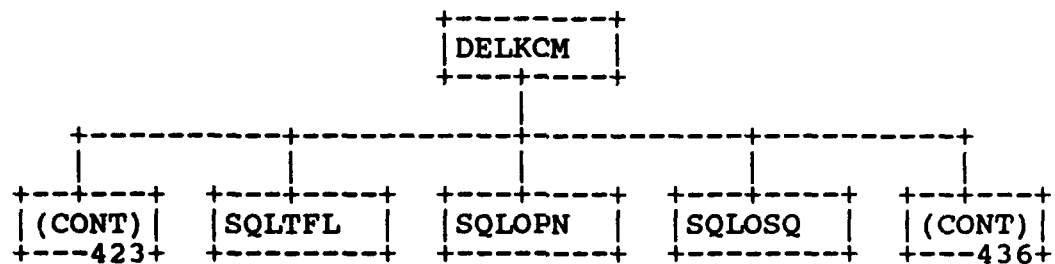
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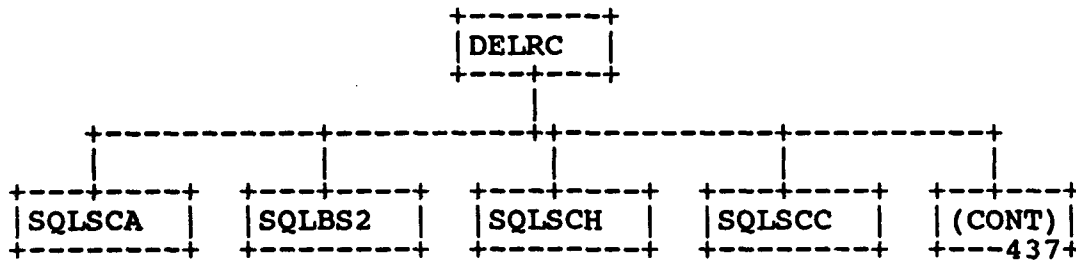
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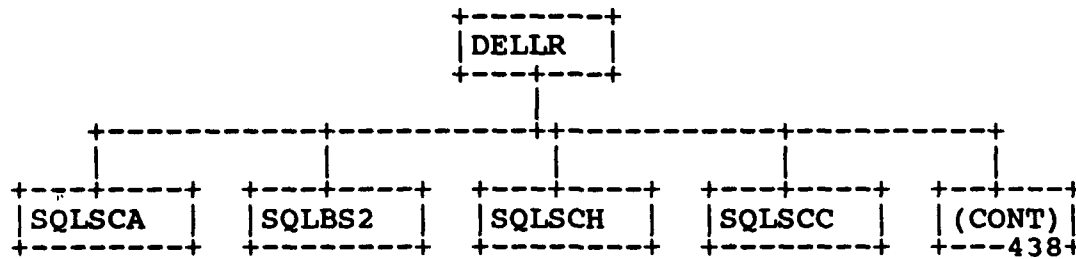
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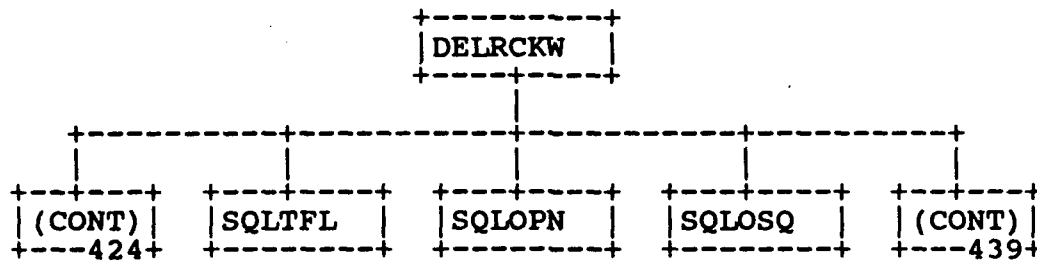
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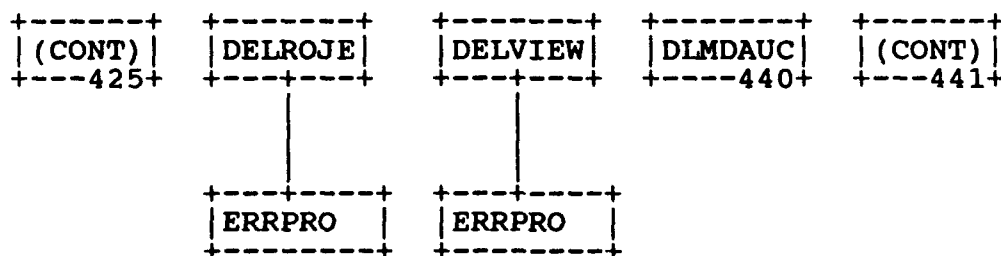
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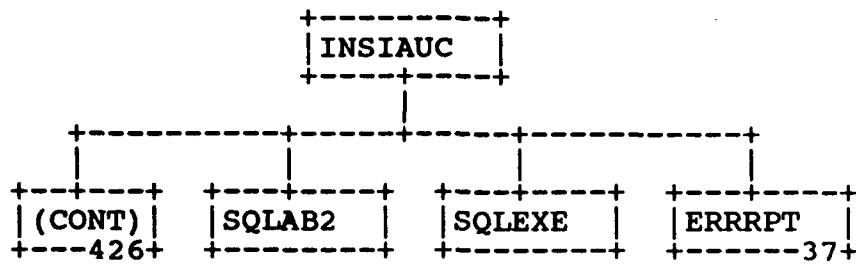
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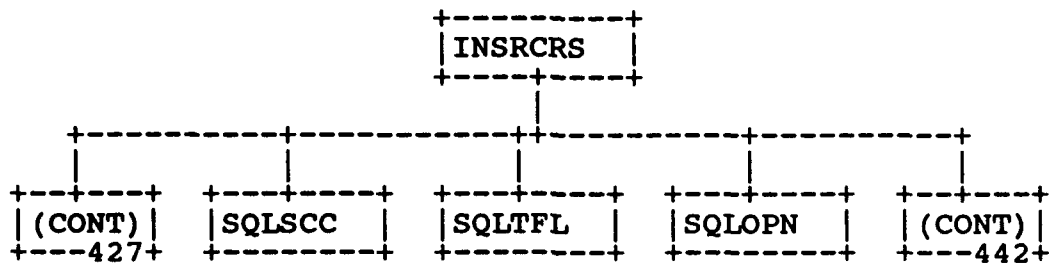
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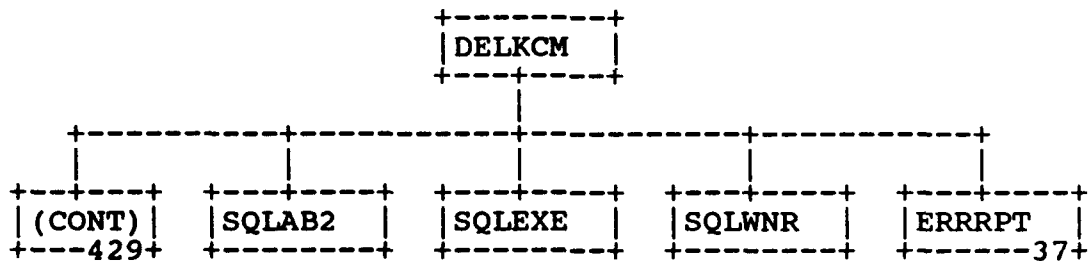
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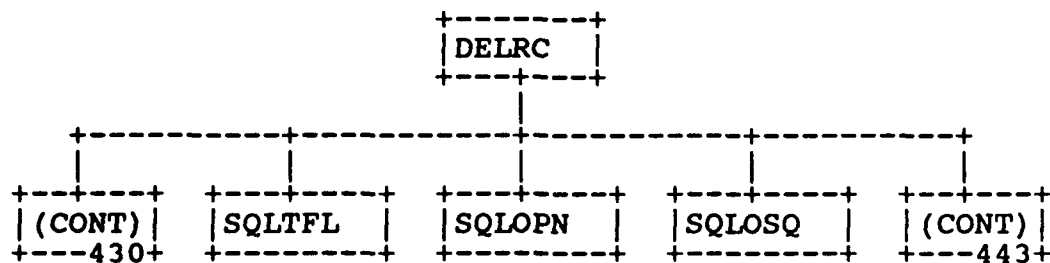
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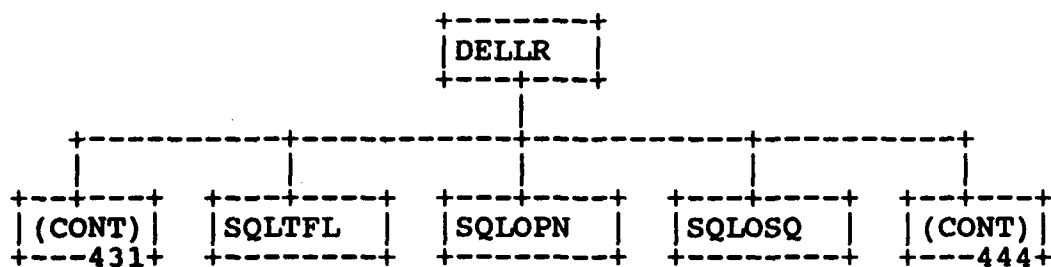
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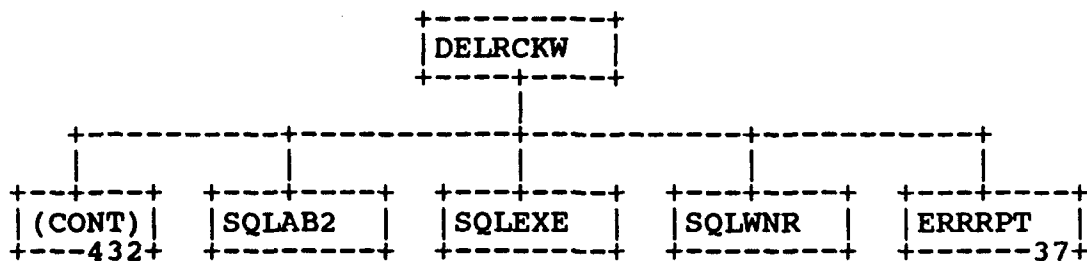
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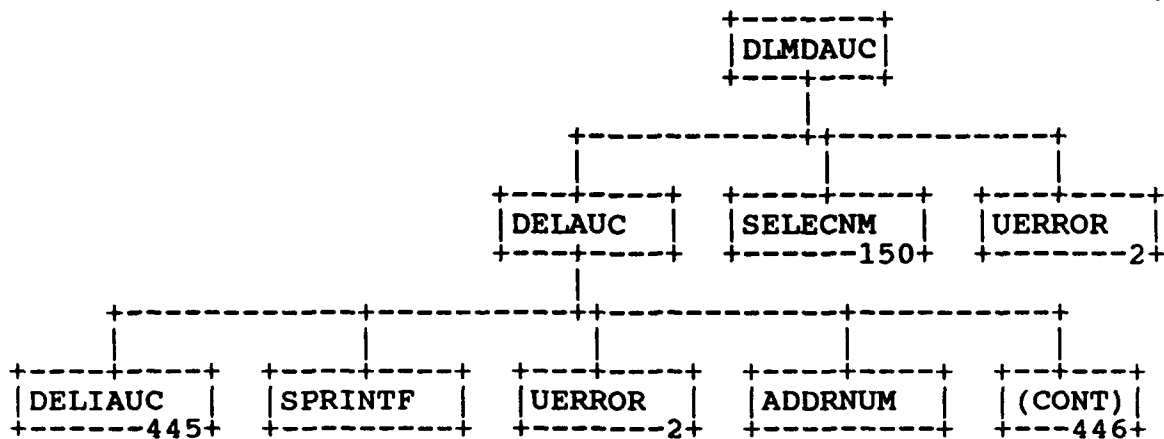
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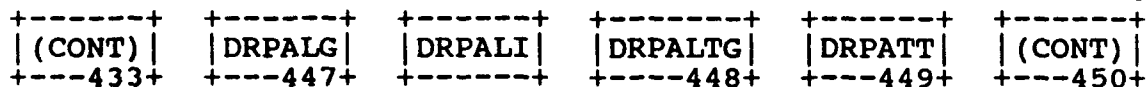
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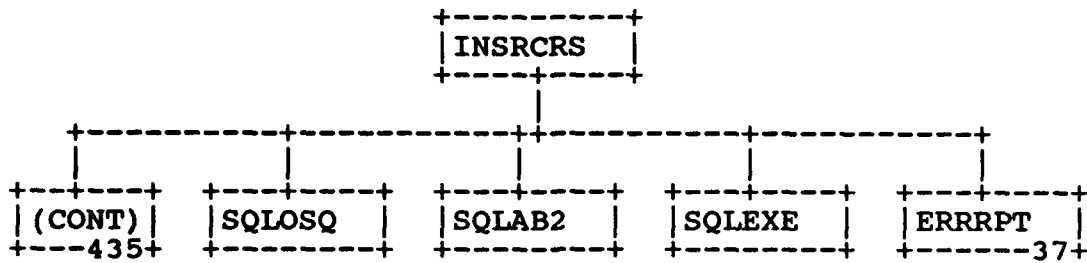
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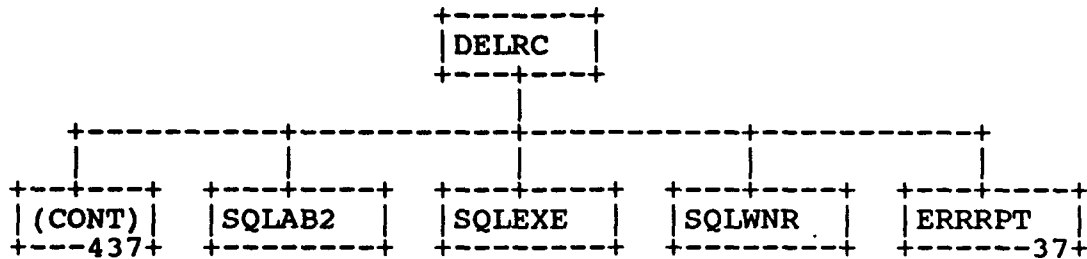
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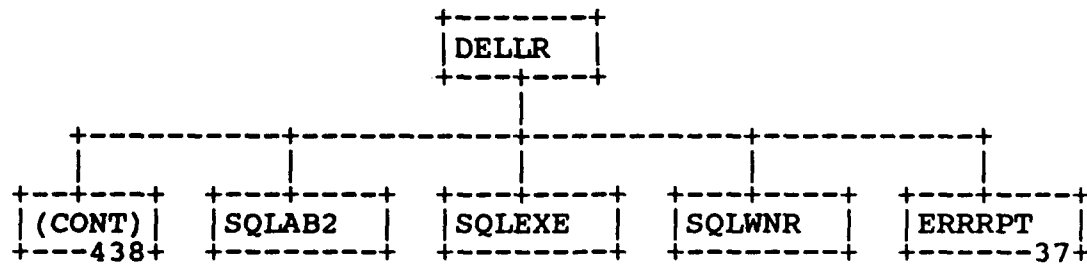
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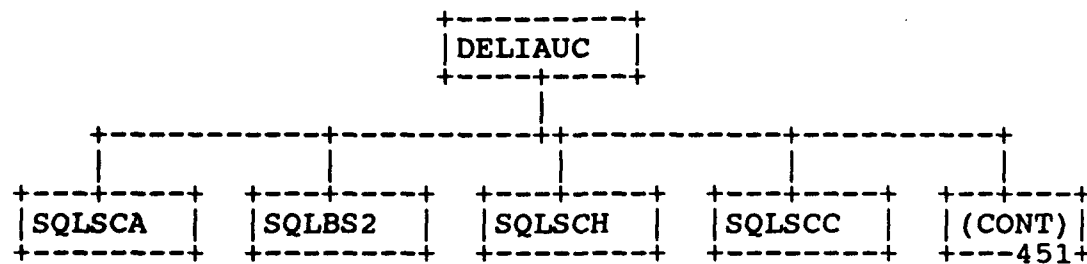
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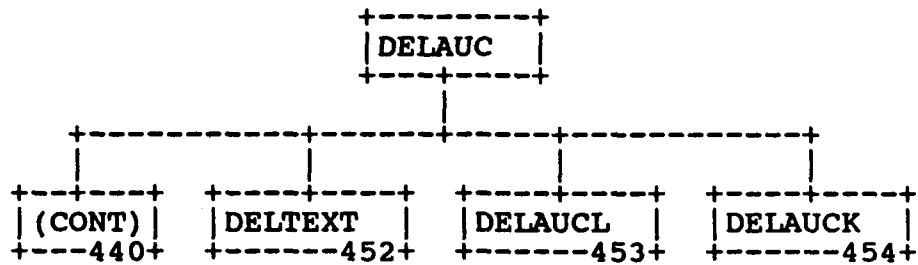
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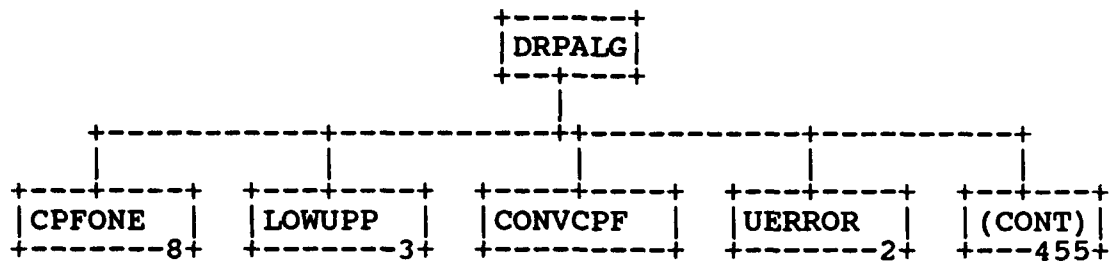
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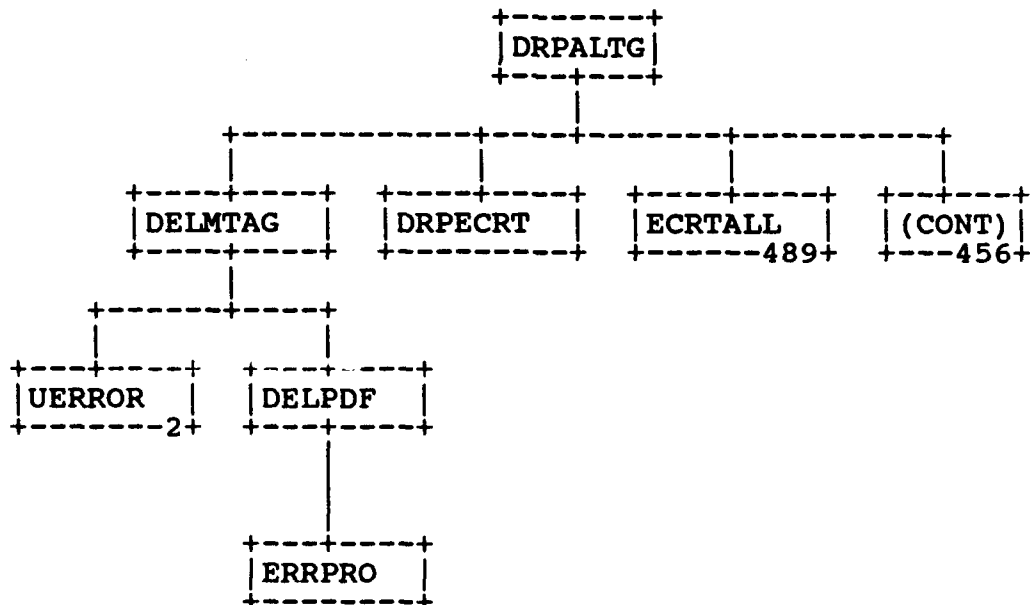
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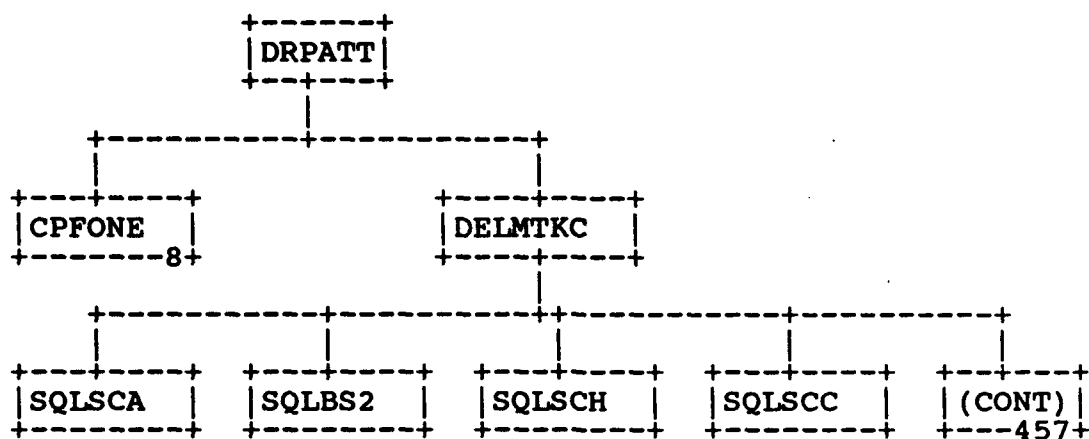
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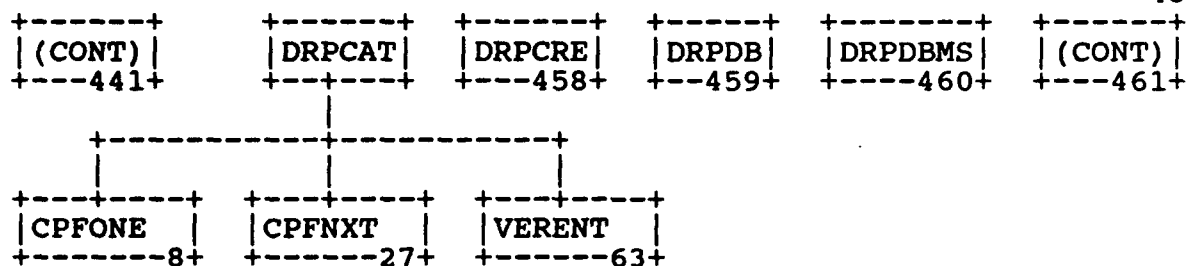
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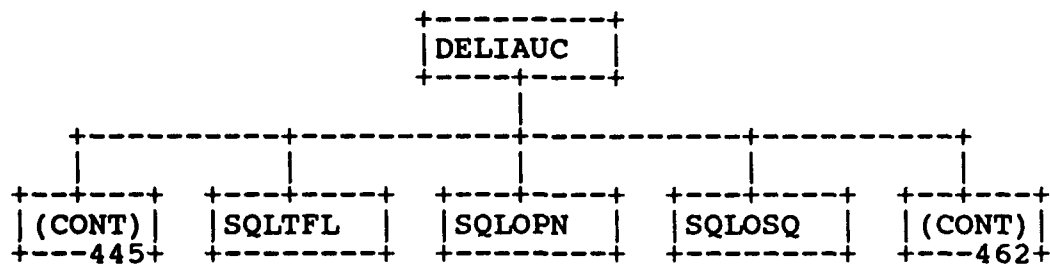
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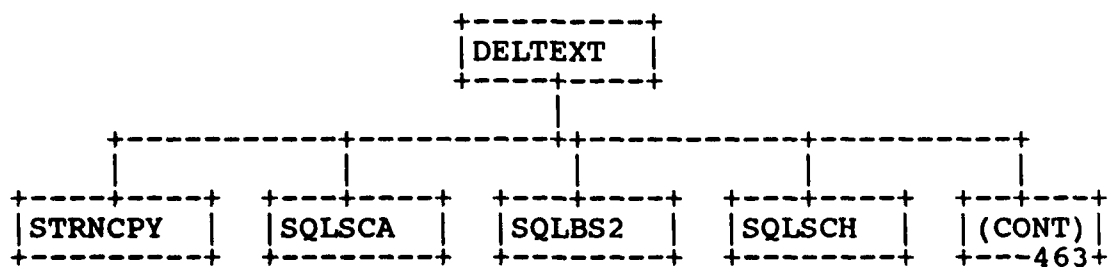
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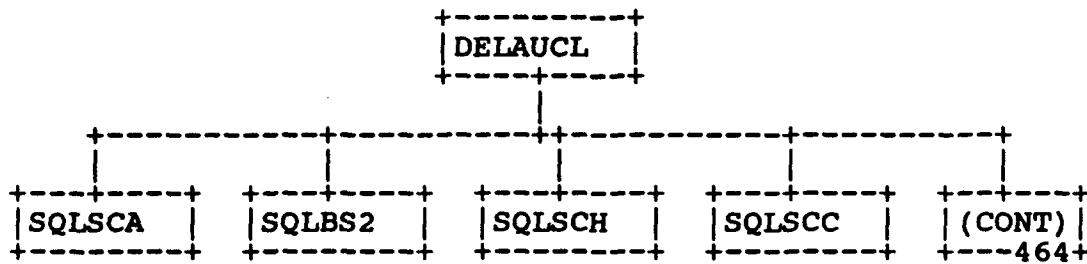
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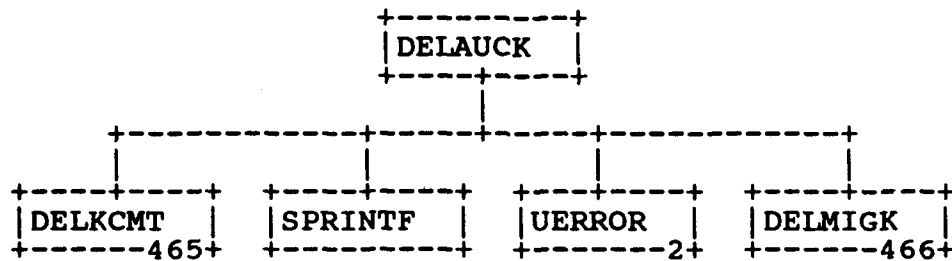
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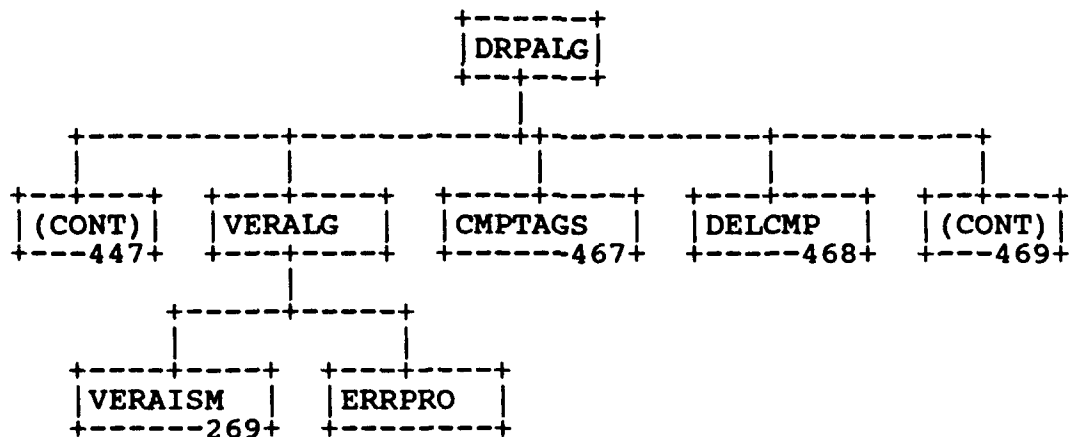
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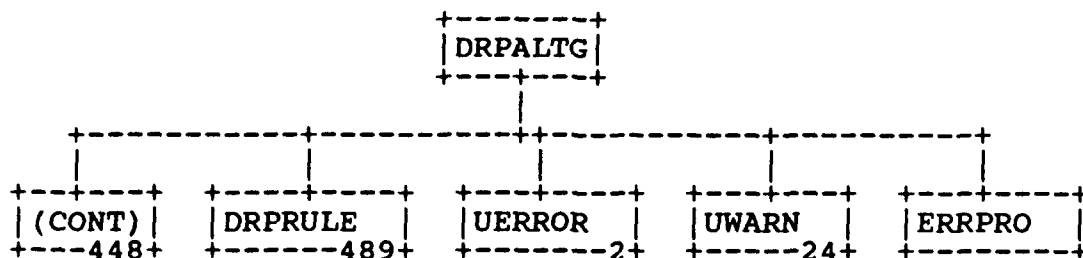
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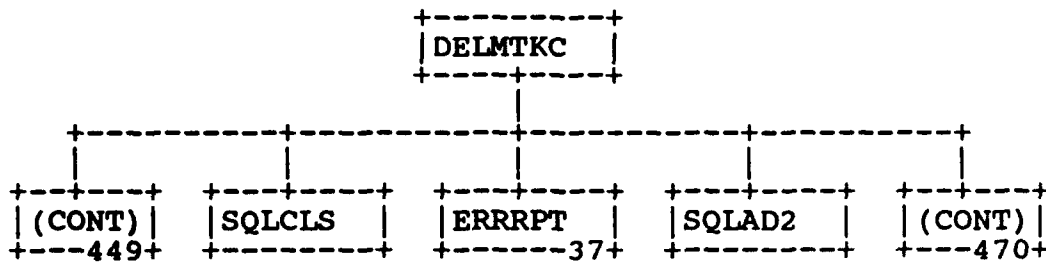
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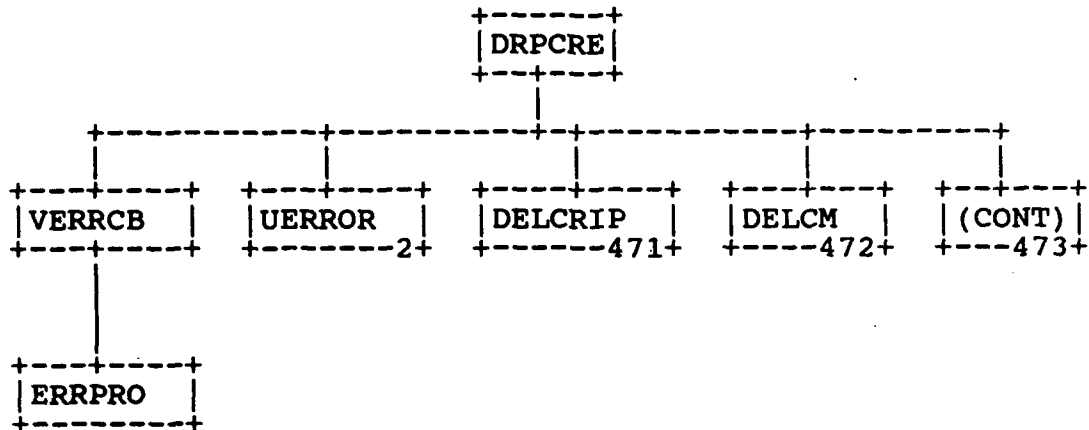
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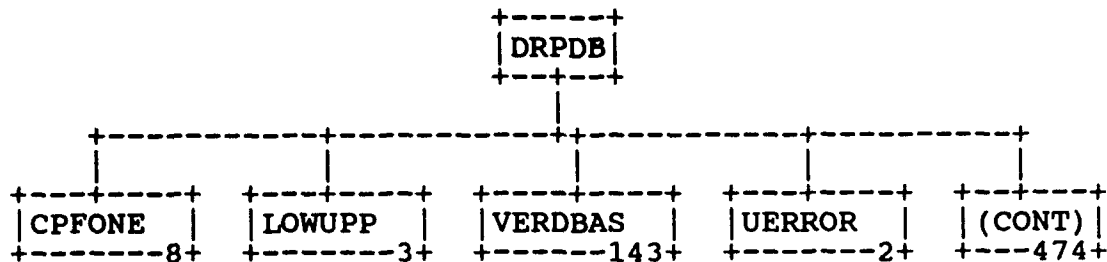
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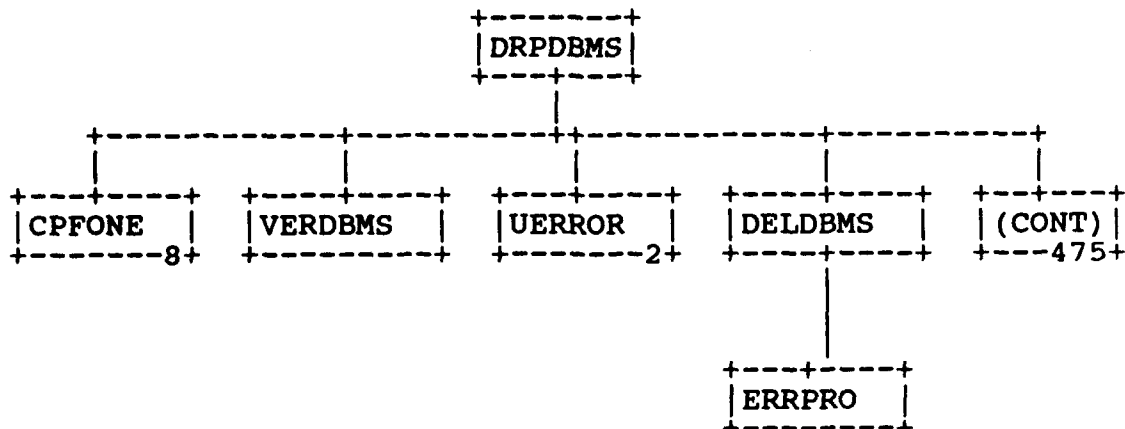
458



459



460



461

(CONT)	DRPDIV	DRPDOM	DRPDSCT	DRPDT	(CONT)
450	476	477	478		479

462

DELIAUC					
(CONT)	SQLAB2	SQLEXE	SQLWNR	ERRRPT	37
451					

463

DELTEXT					
(CONT)	SQLSCC	SQLTFL	SQLOPN	(CONT)	
452				480	

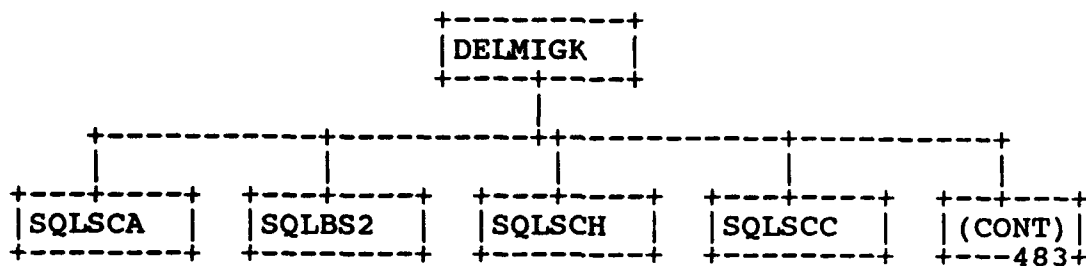
464

DELAUCL					
(CONT)	SQLTFL	SQLOPN	SQLOSQ	(CONT)	
453				481	

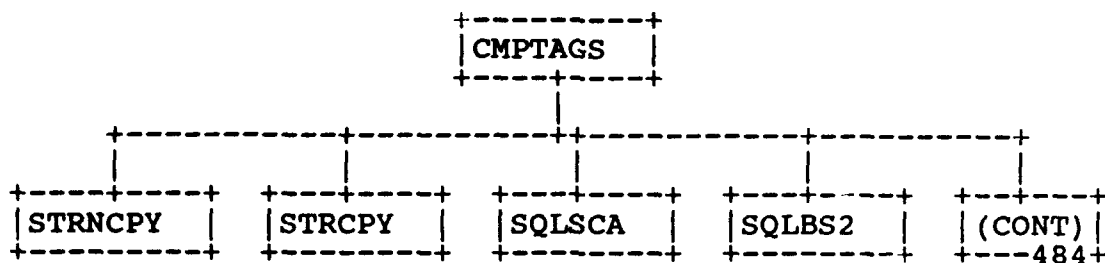
465

DELCMT					
SQLSCA	SQLBS2	SQLSCH	SQLSCC	(CONT)	
				482	

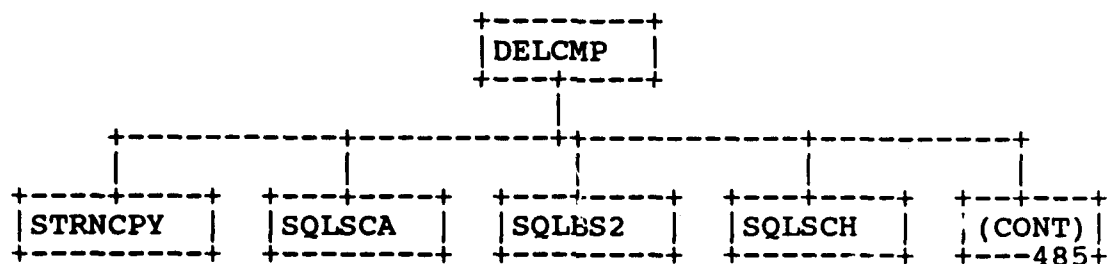
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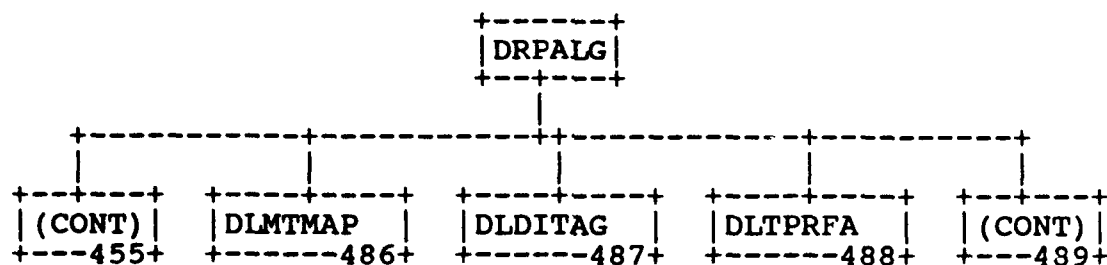
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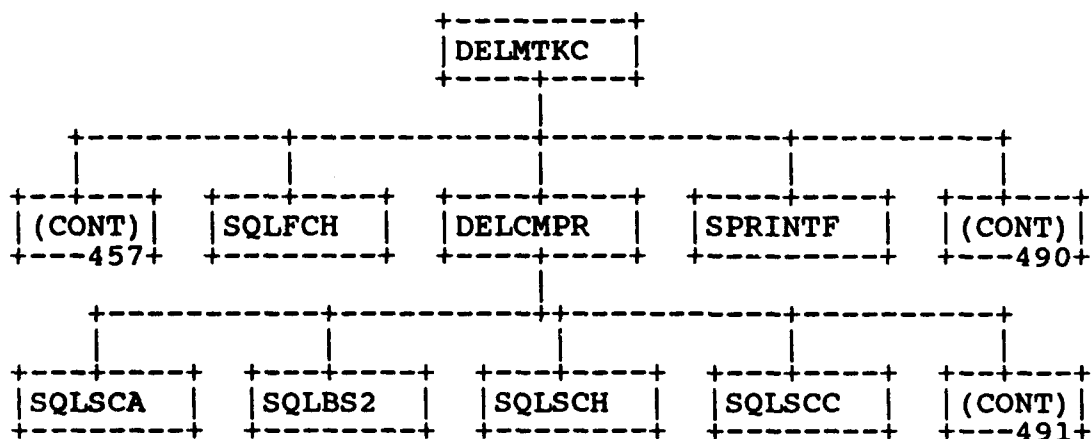
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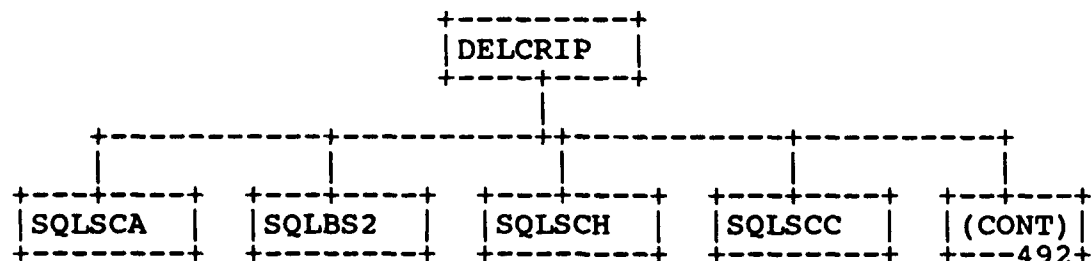
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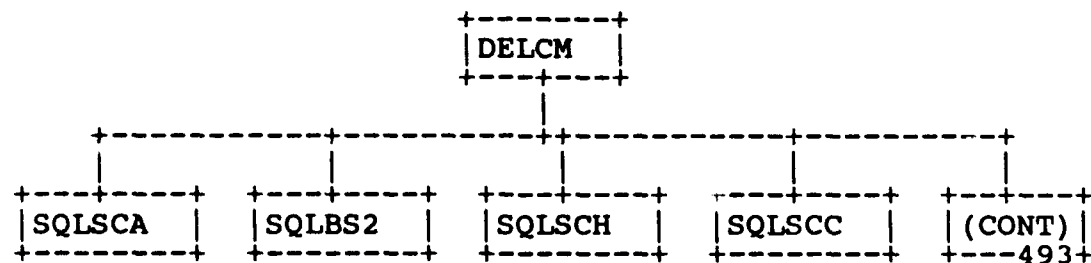
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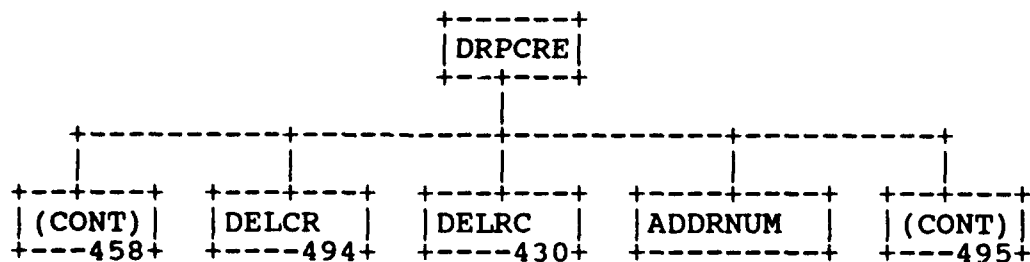
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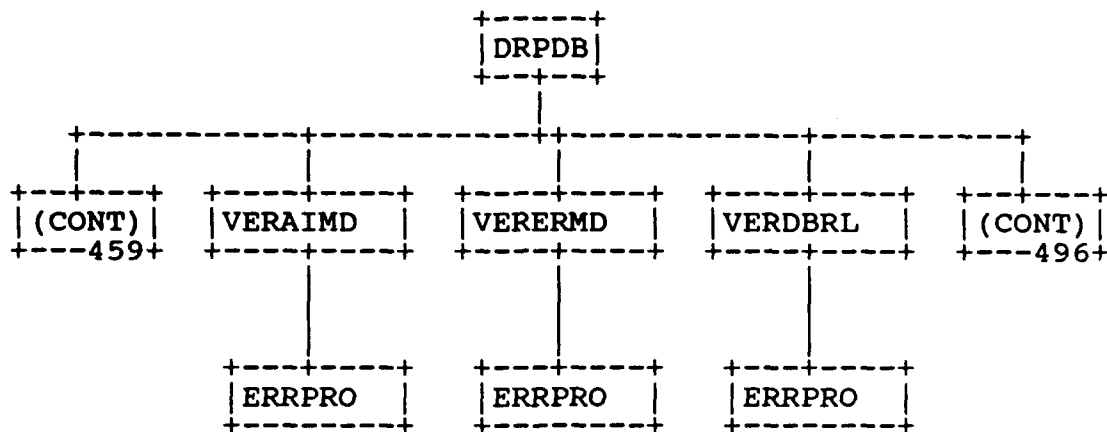
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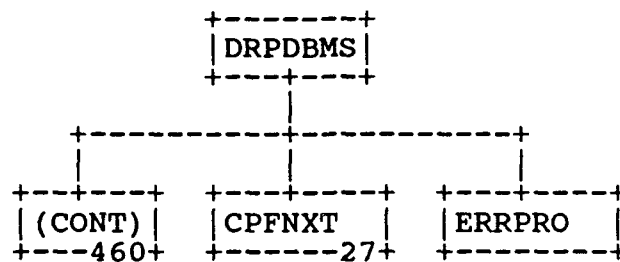
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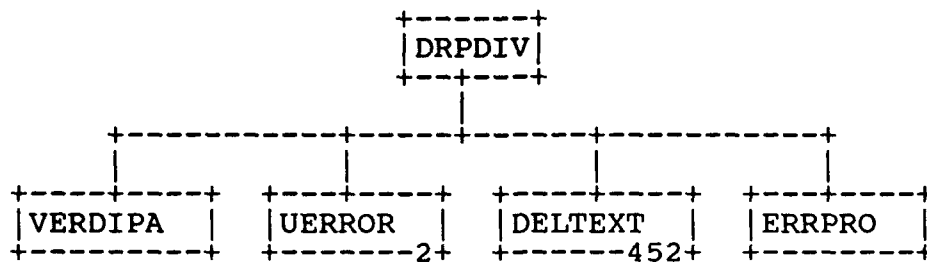
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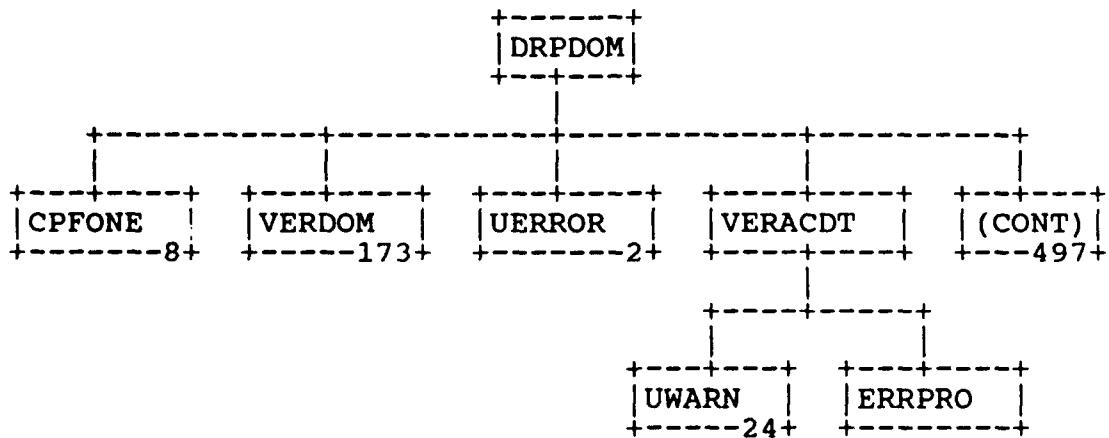
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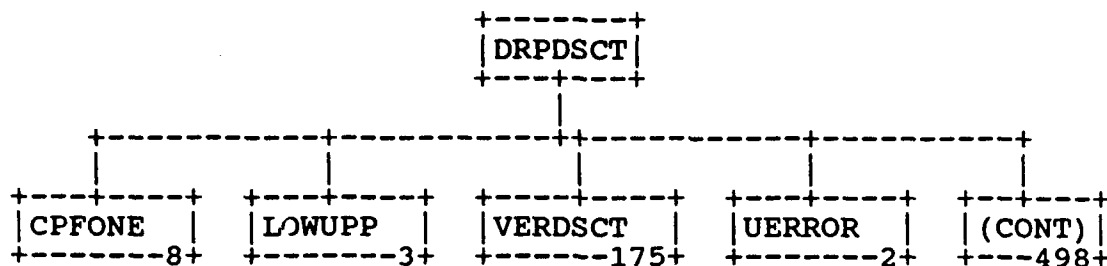
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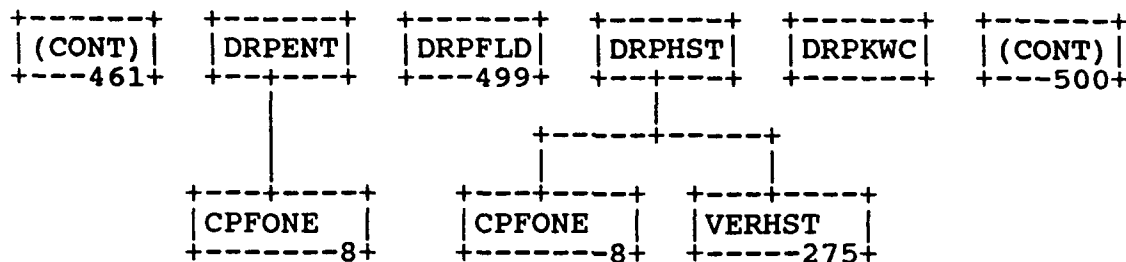
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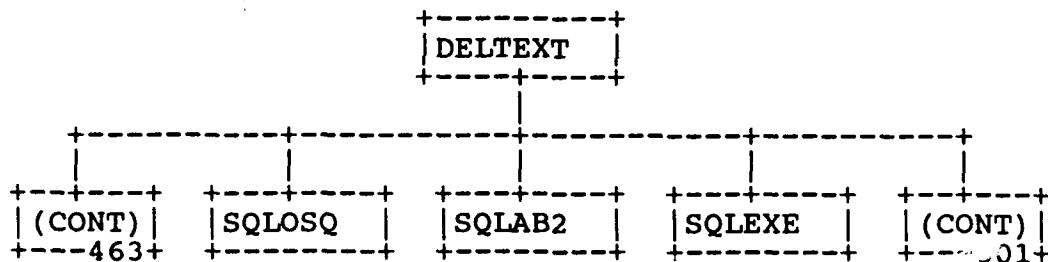
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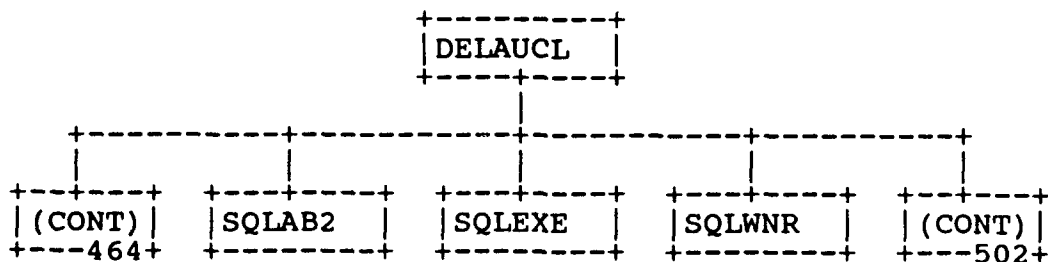
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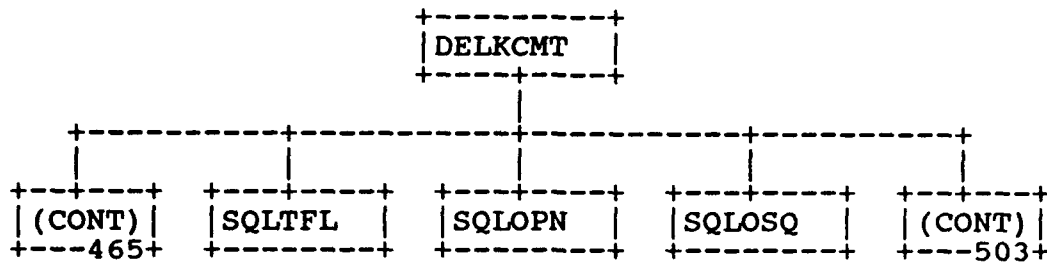
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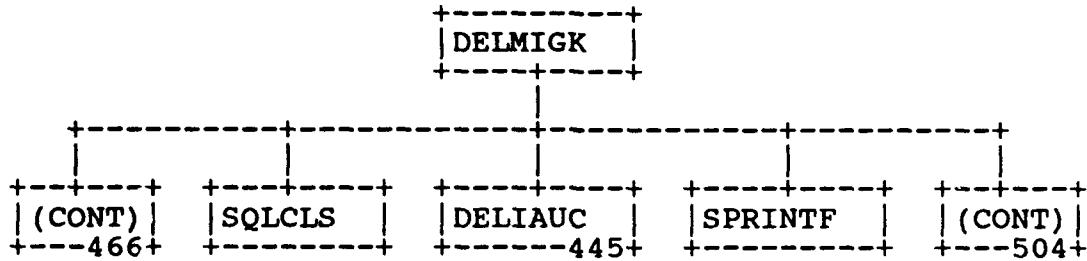
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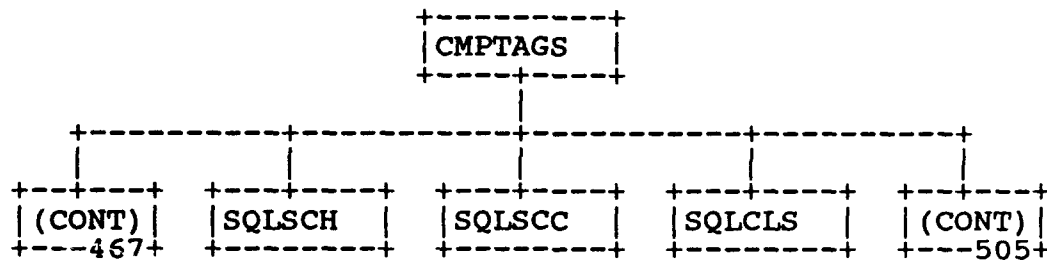
482



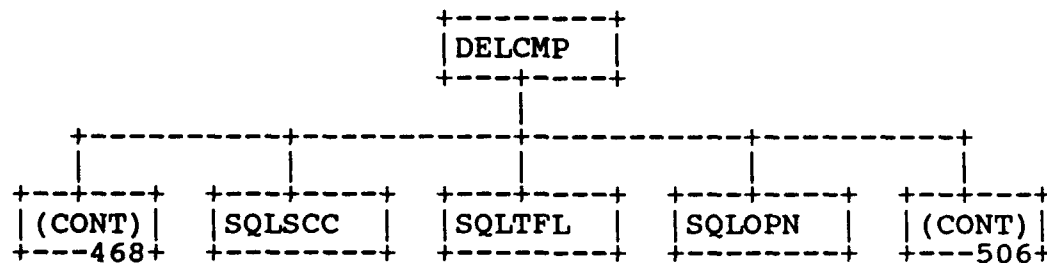
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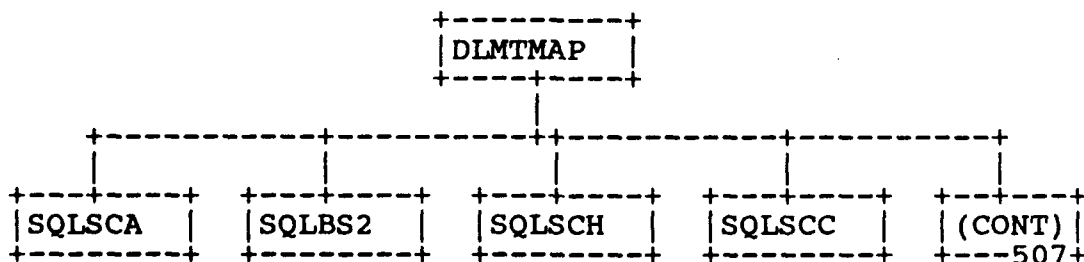
484



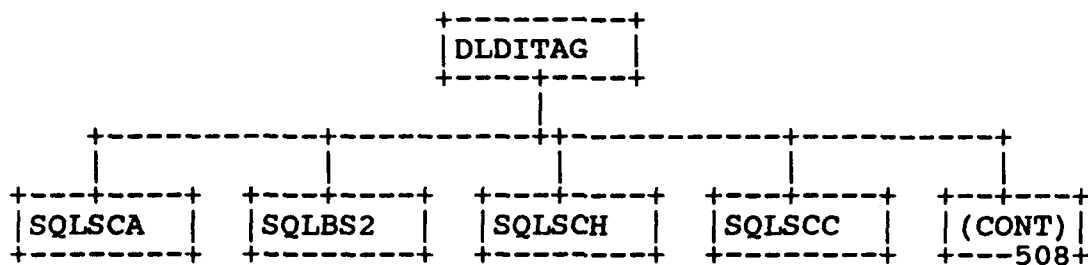
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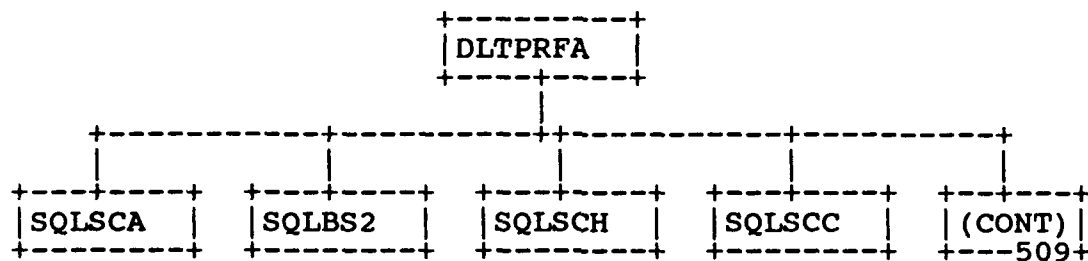
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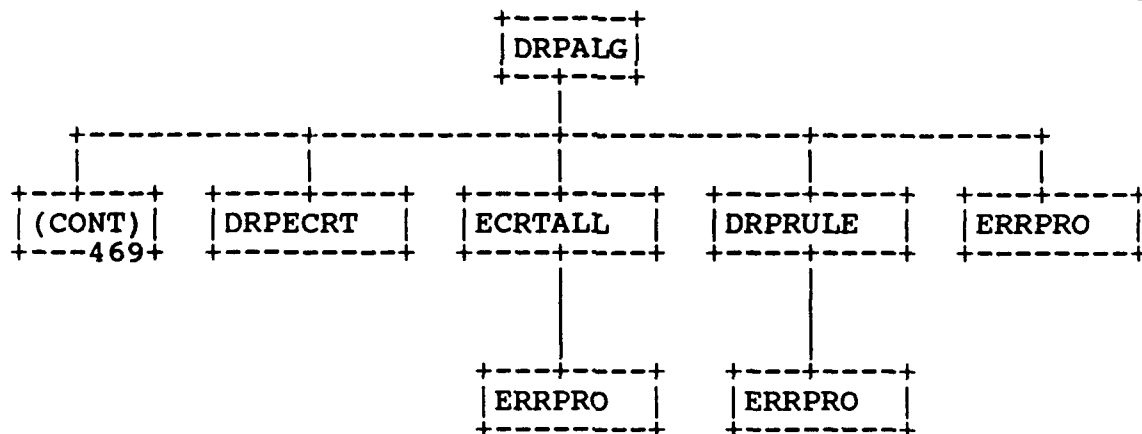
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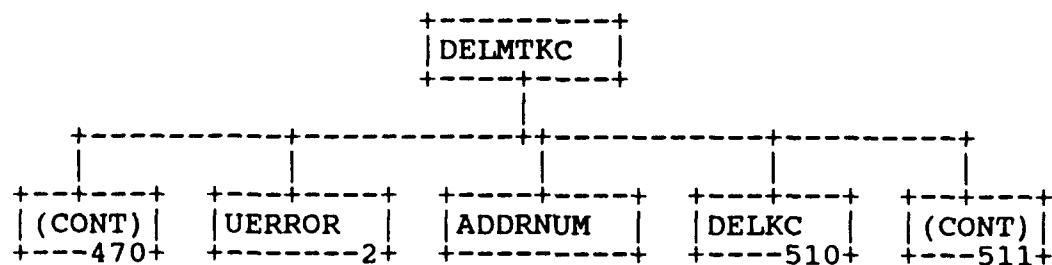
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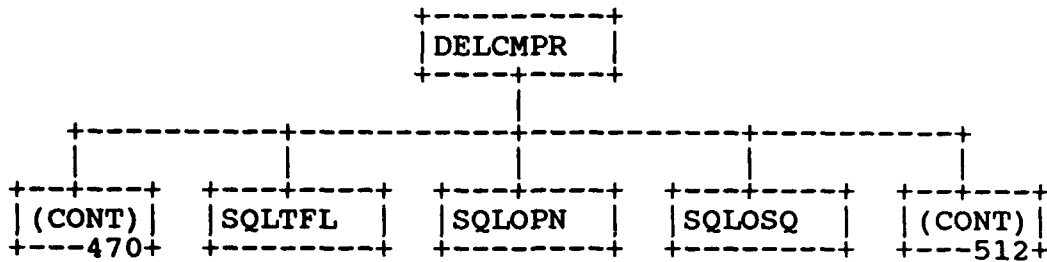
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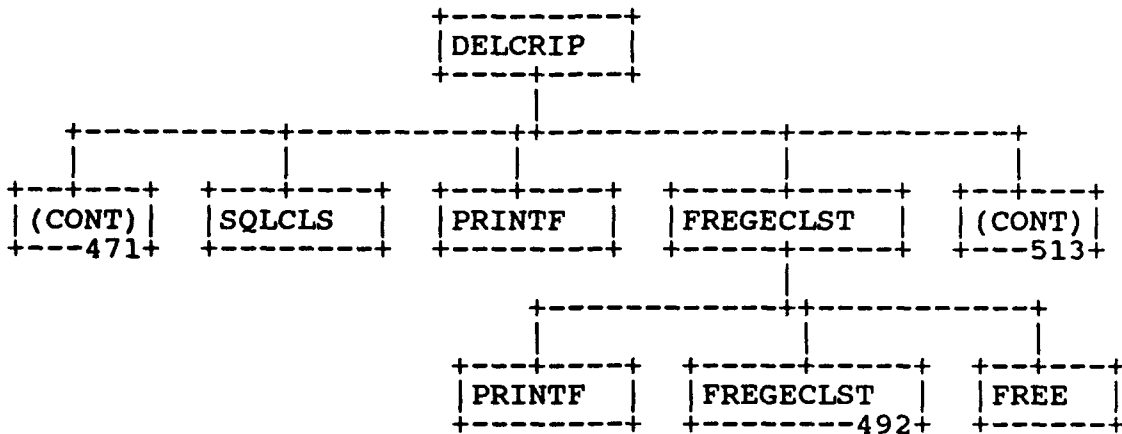
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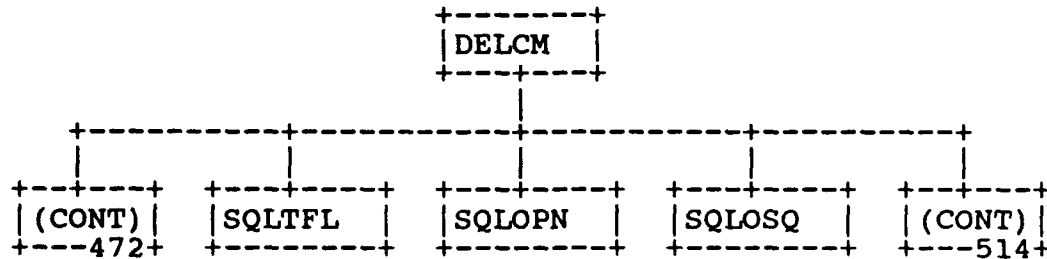
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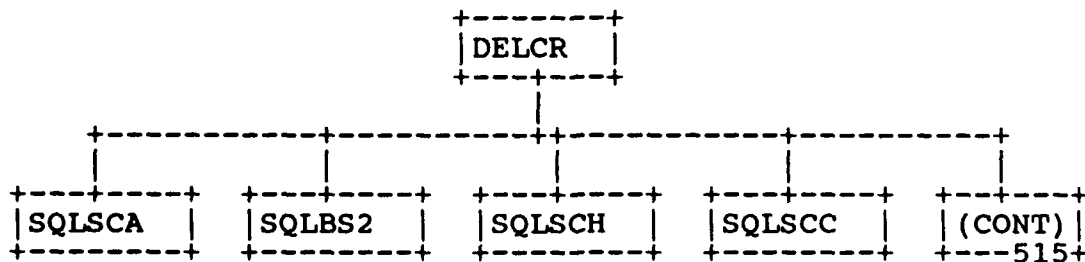
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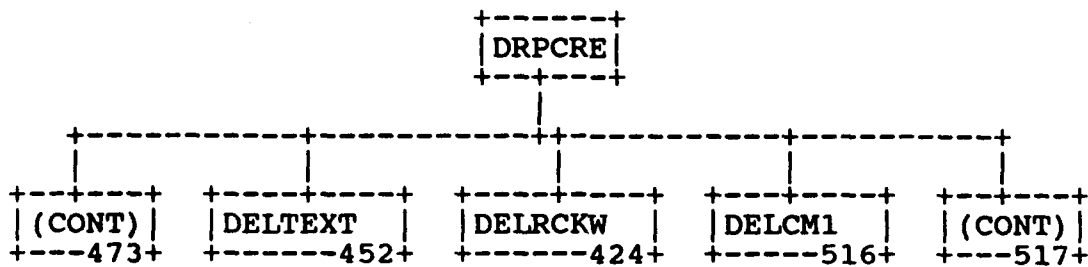
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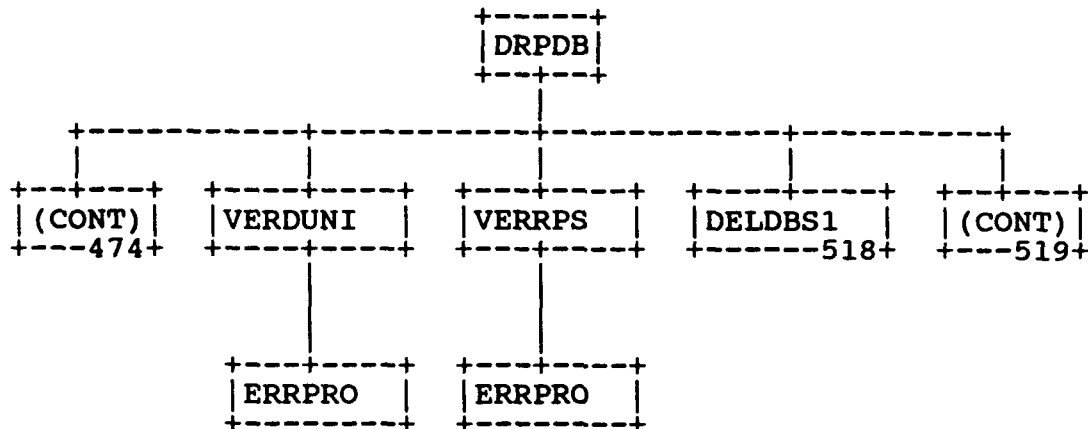
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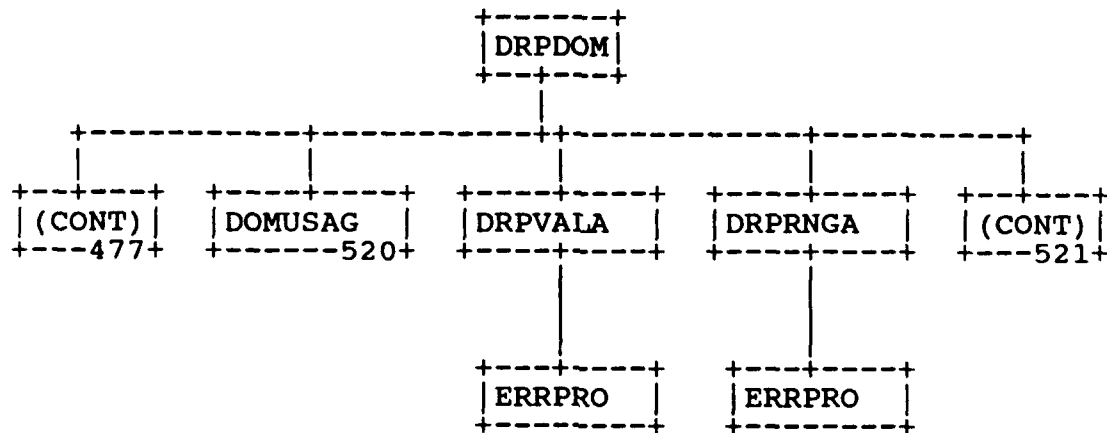
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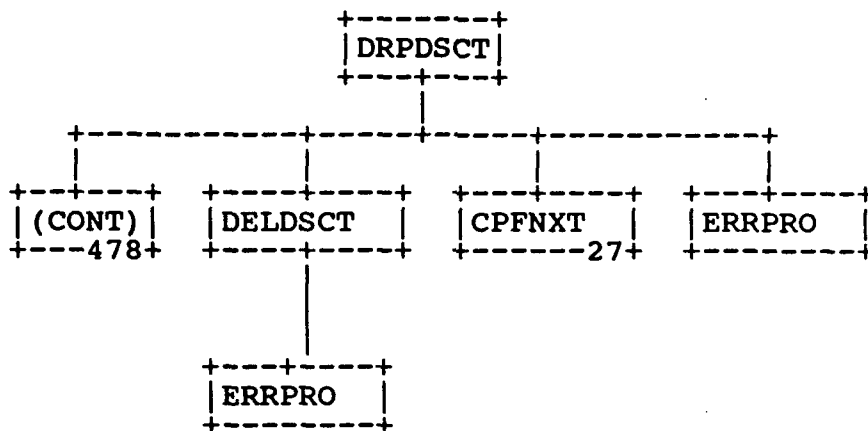
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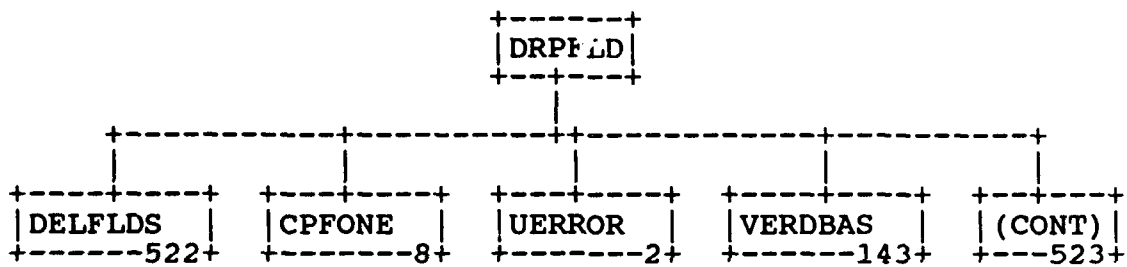
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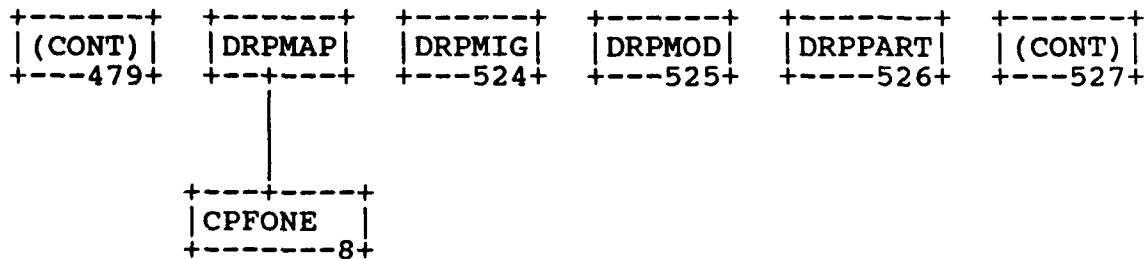
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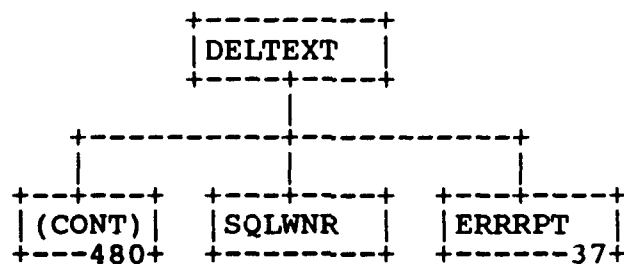
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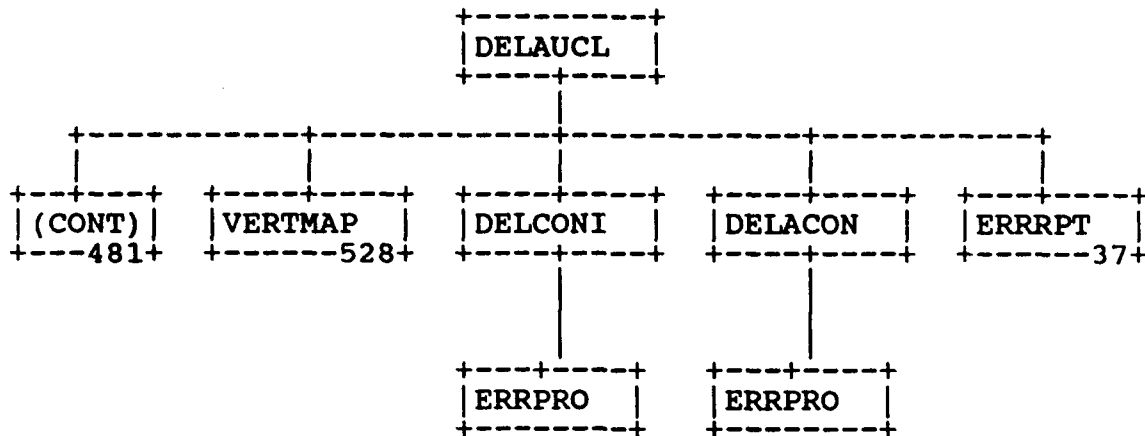
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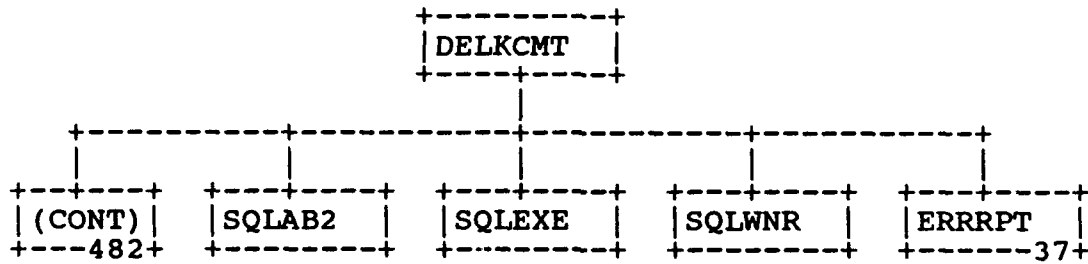
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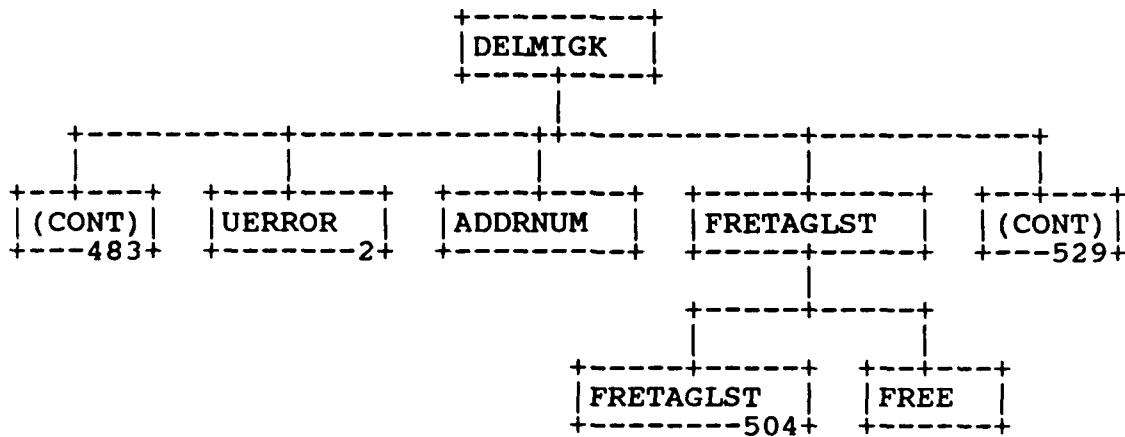
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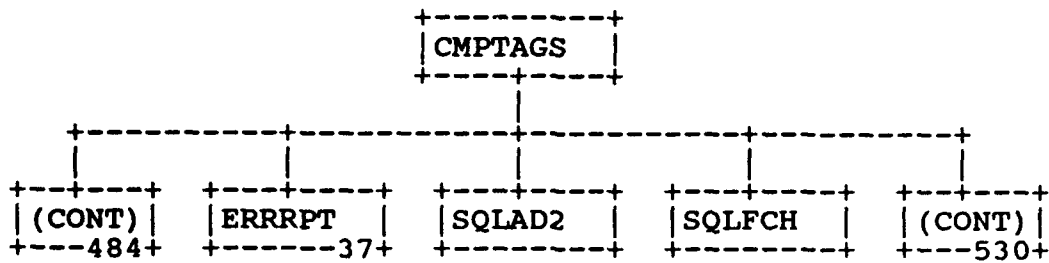
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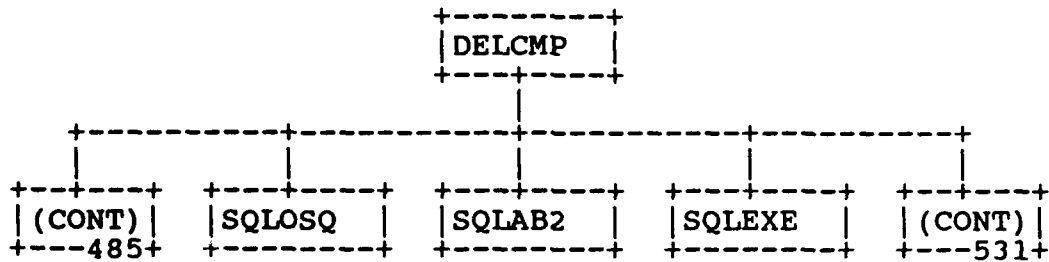
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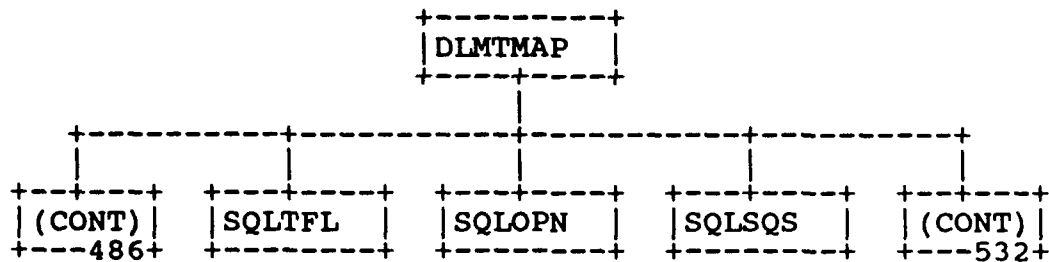
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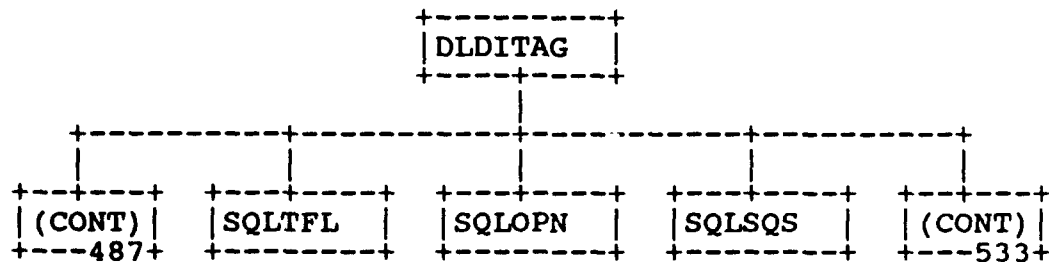
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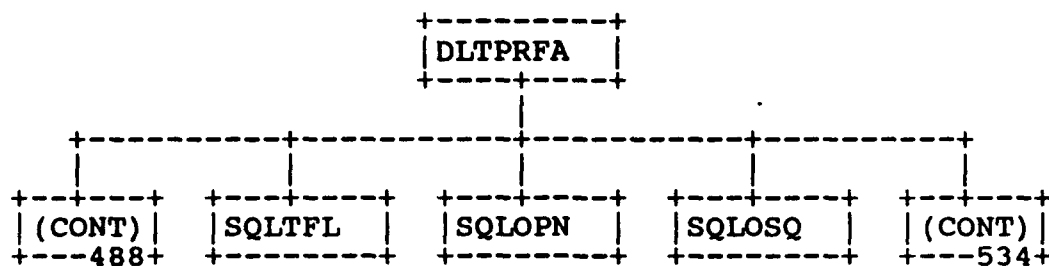
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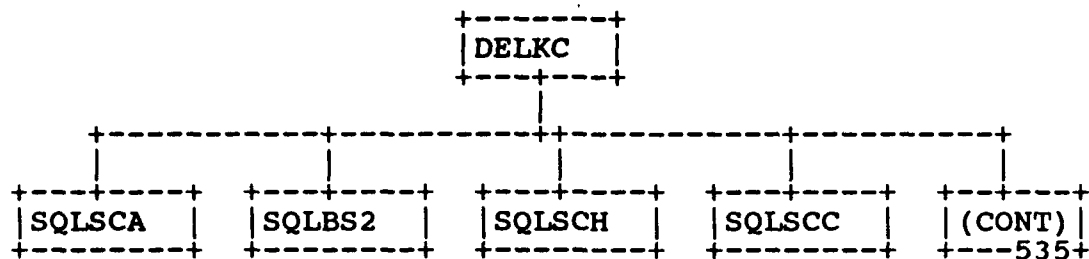
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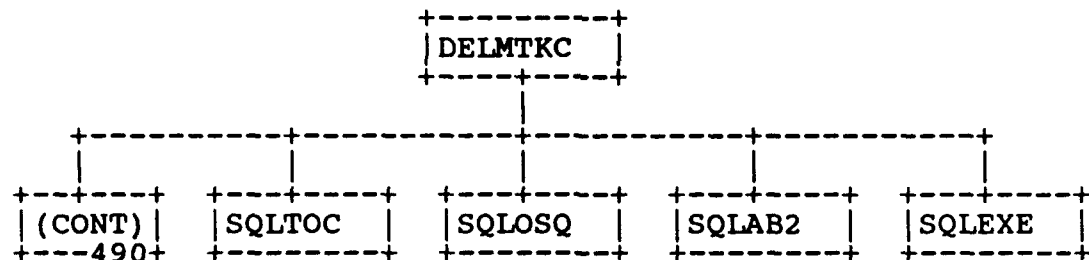
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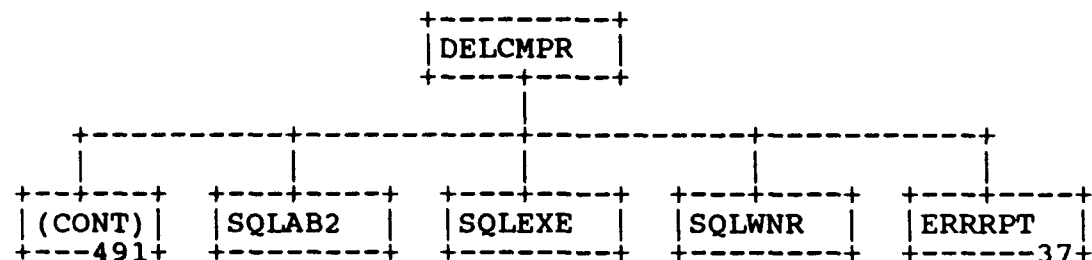
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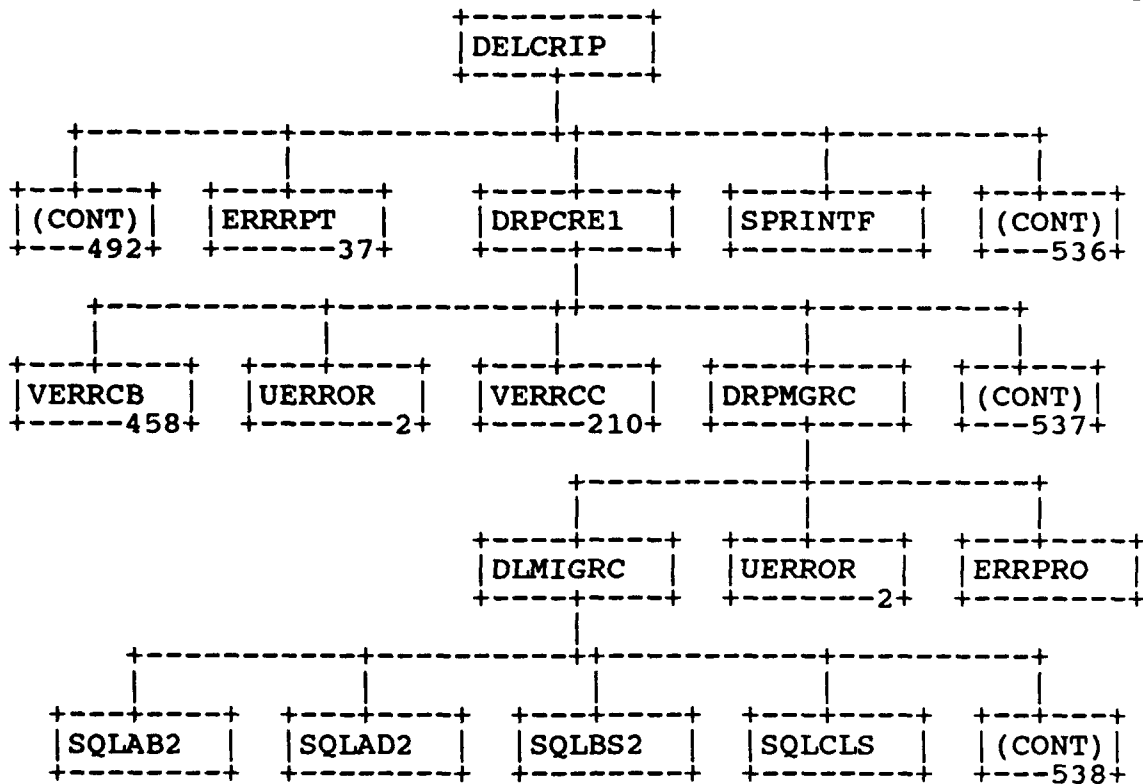
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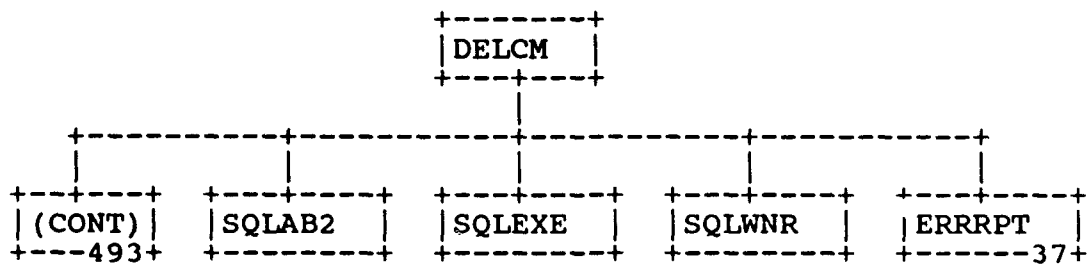
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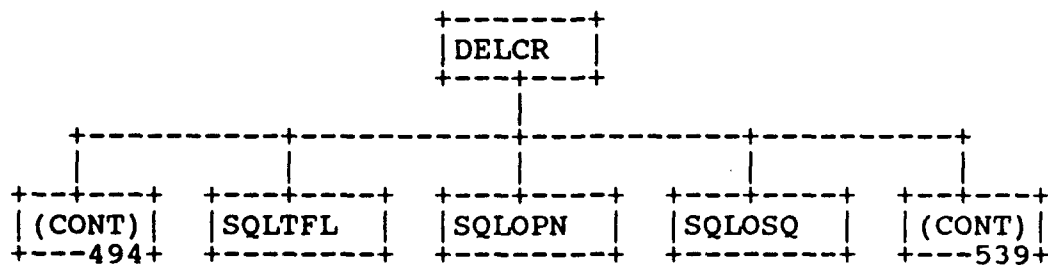
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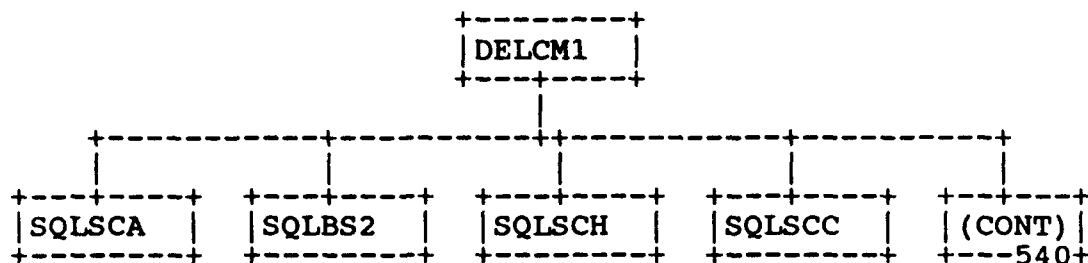
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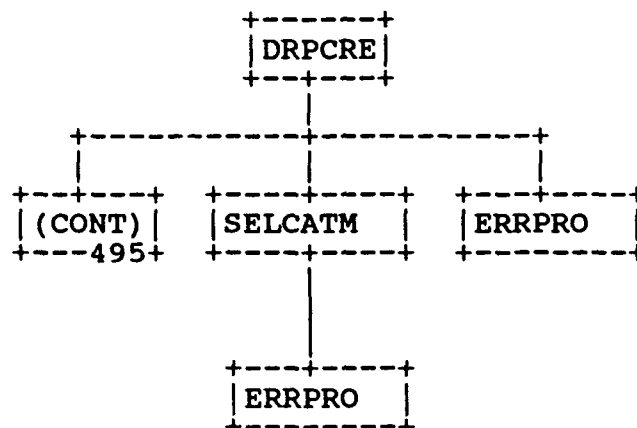
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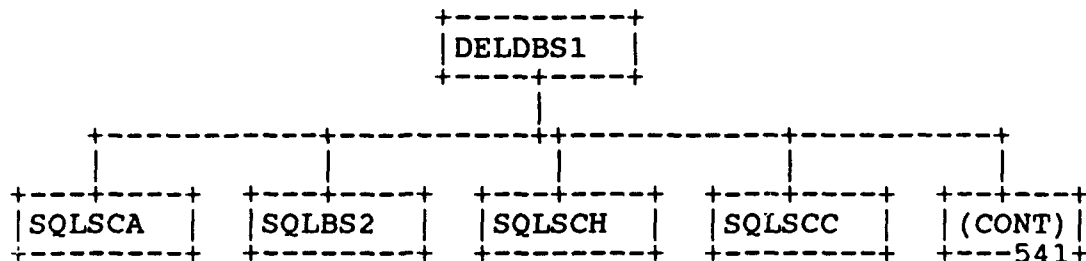
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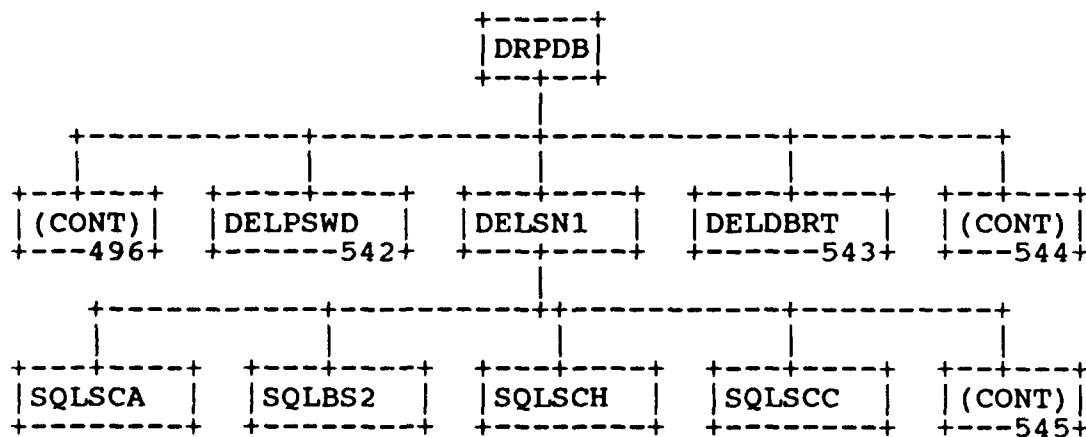
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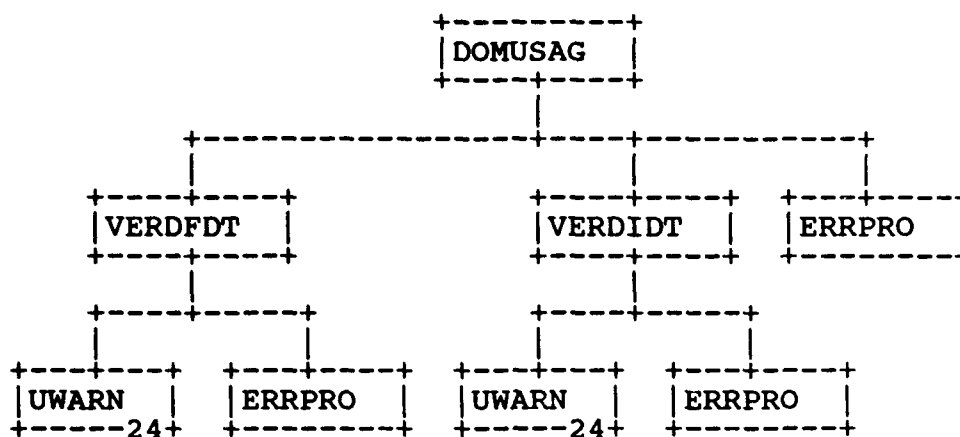
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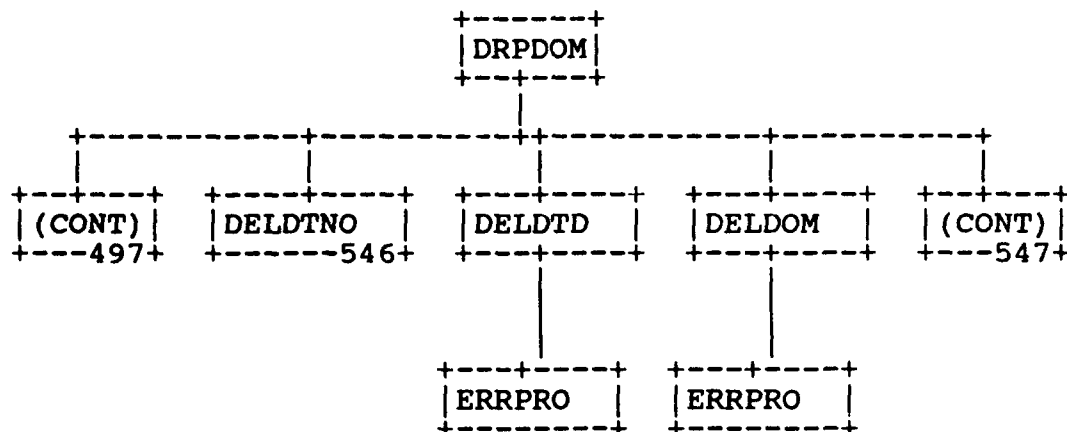
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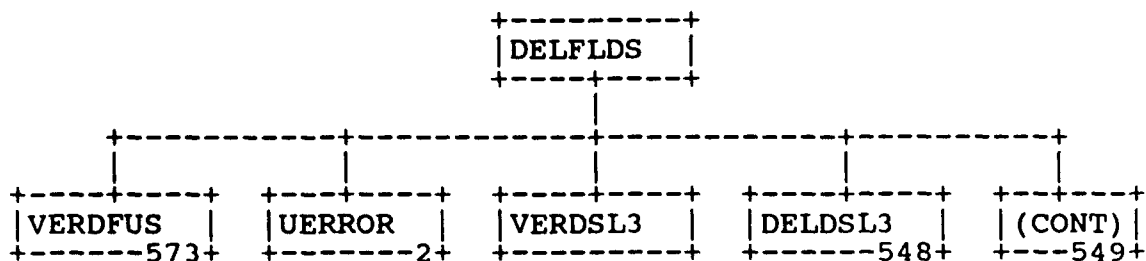
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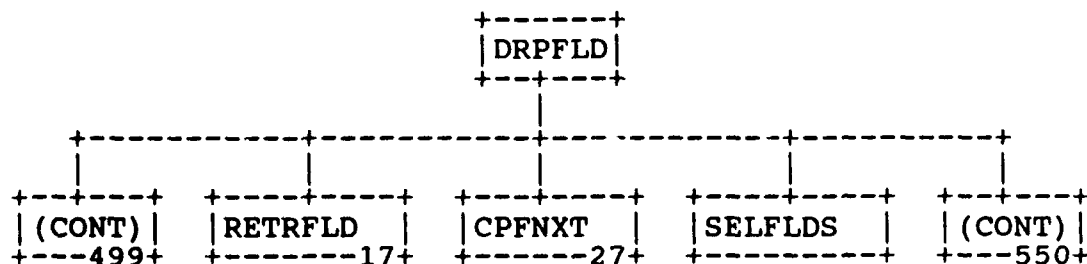
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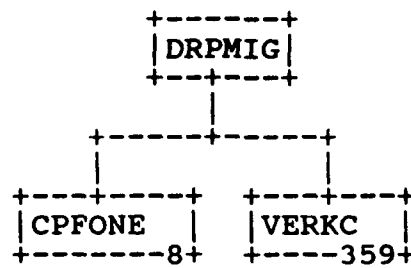
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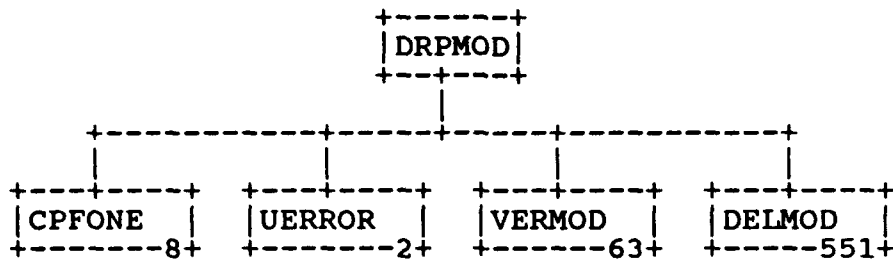
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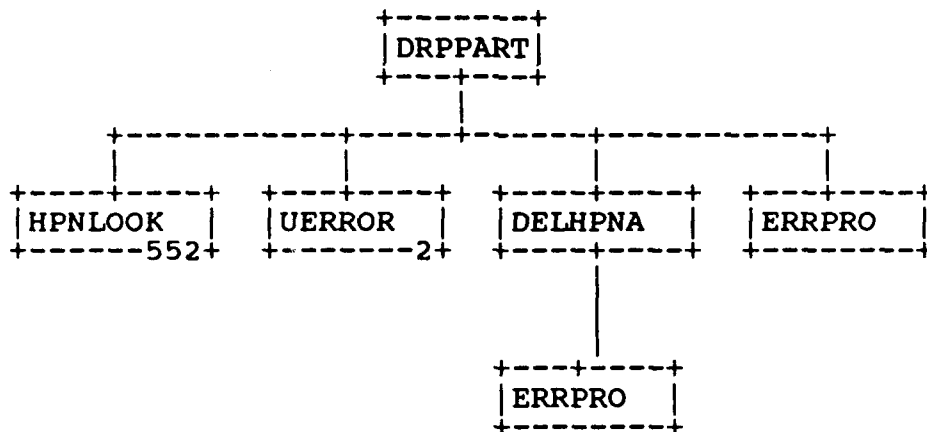
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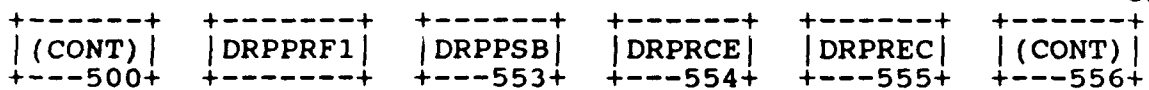
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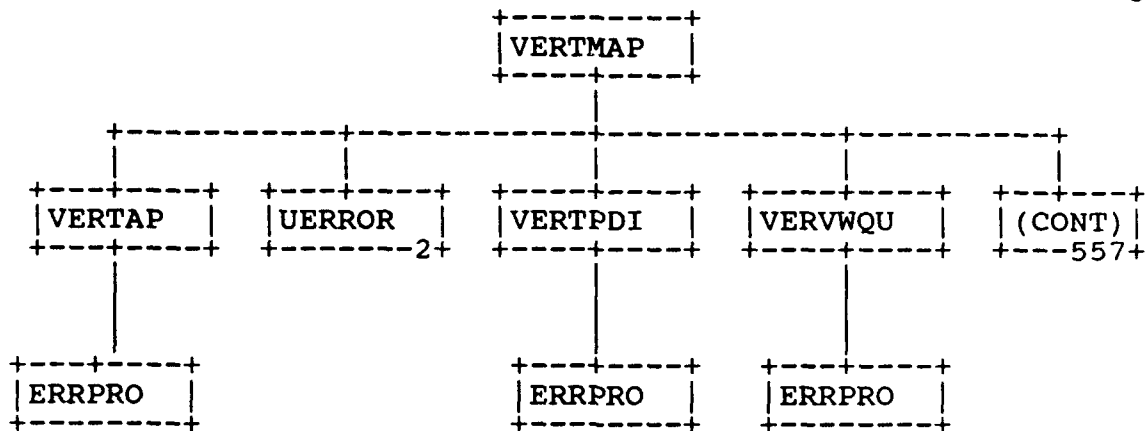
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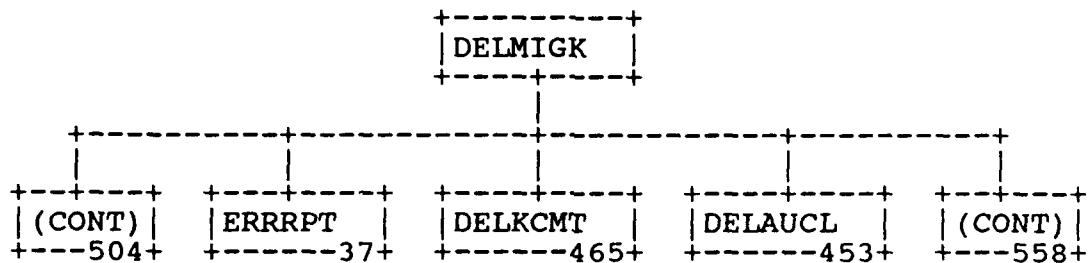
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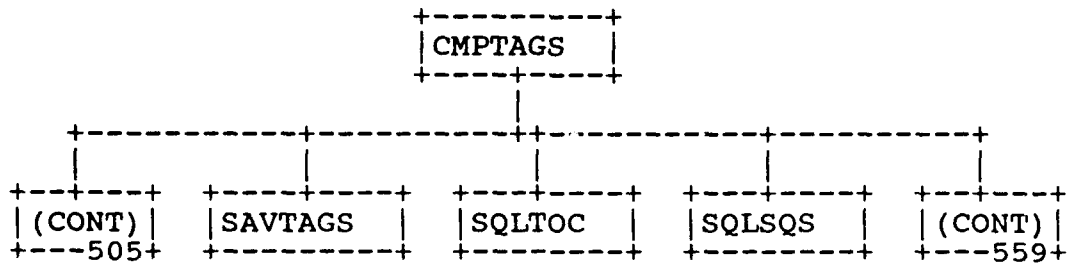
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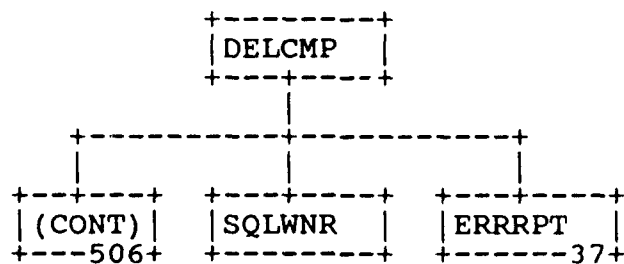
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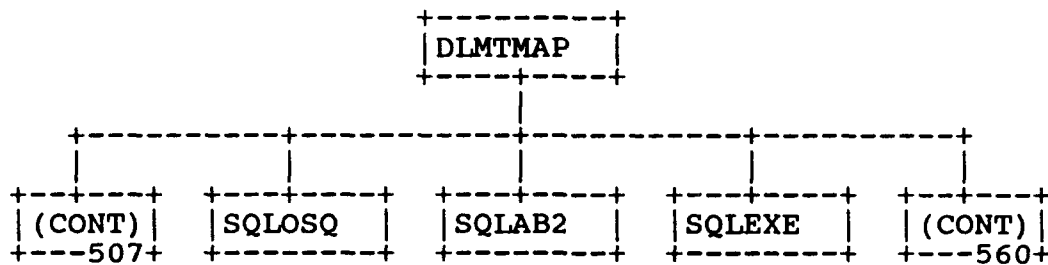
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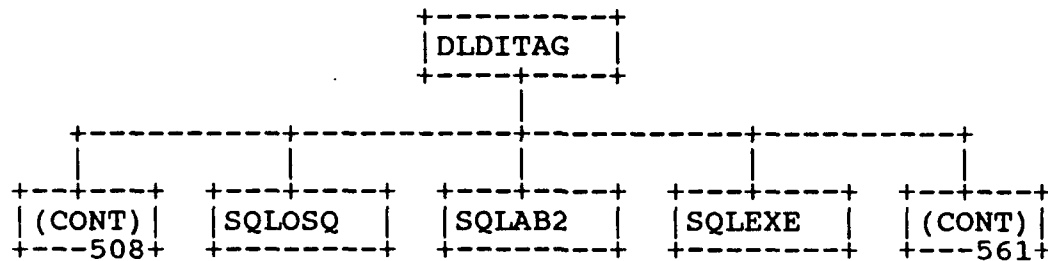
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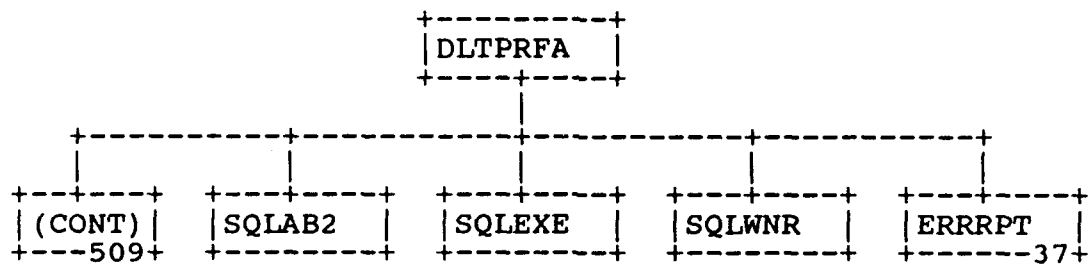
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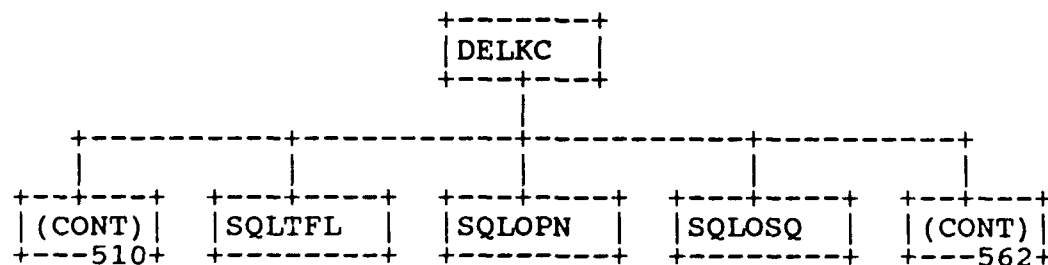
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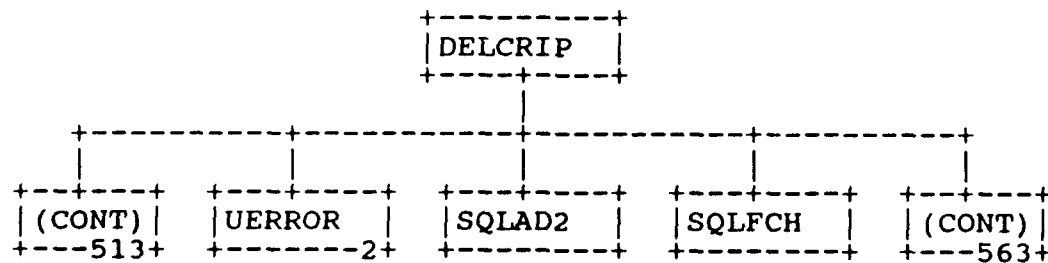
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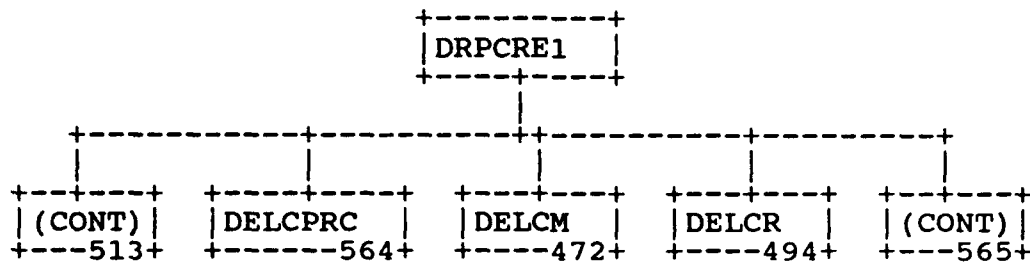
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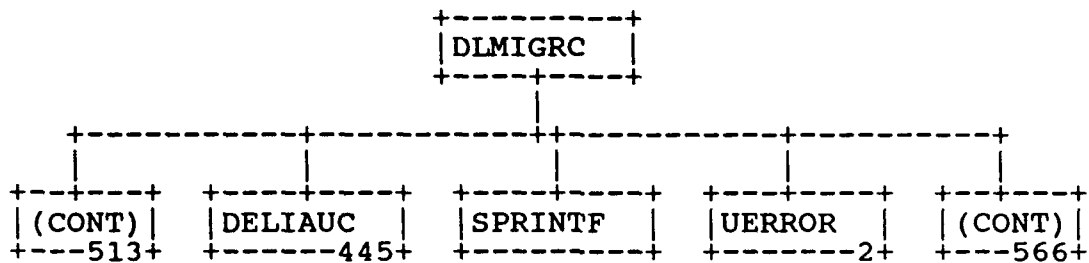
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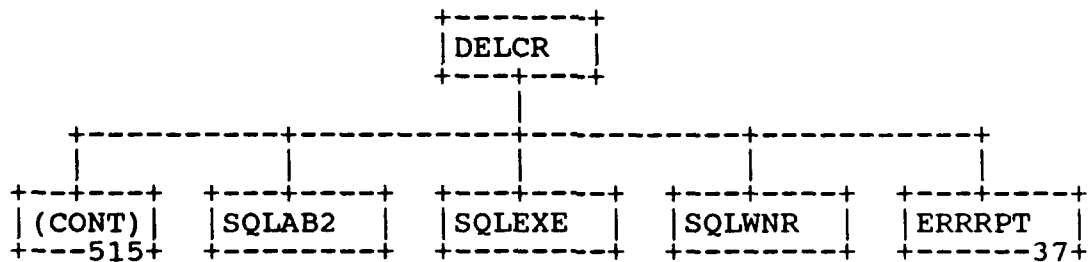
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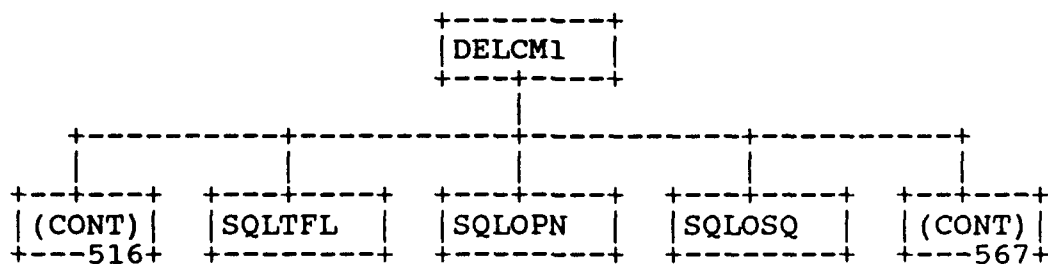
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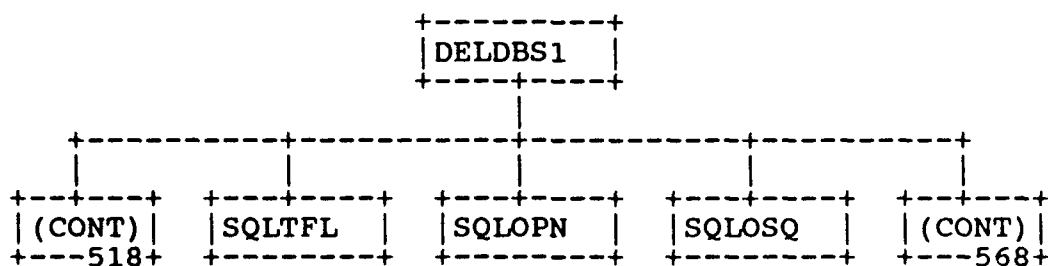
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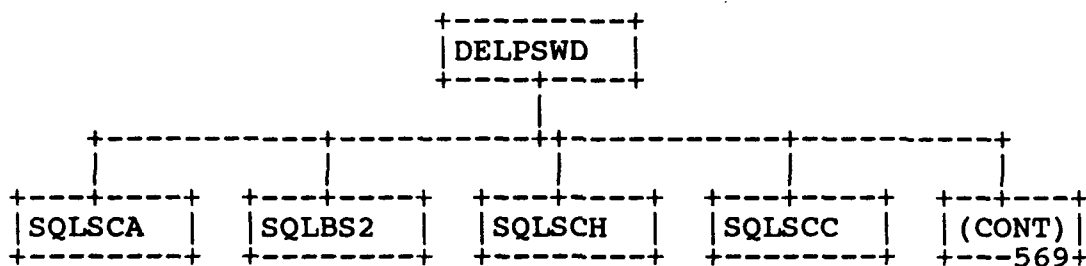
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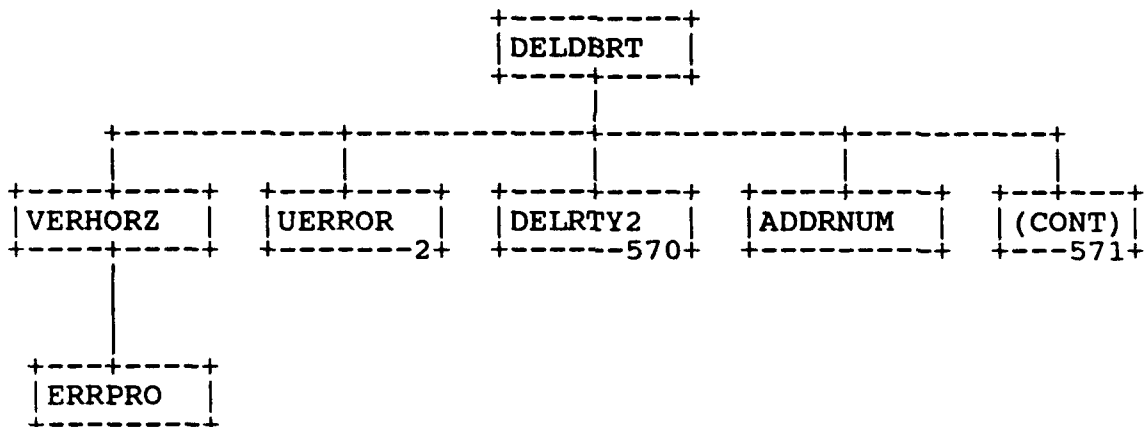
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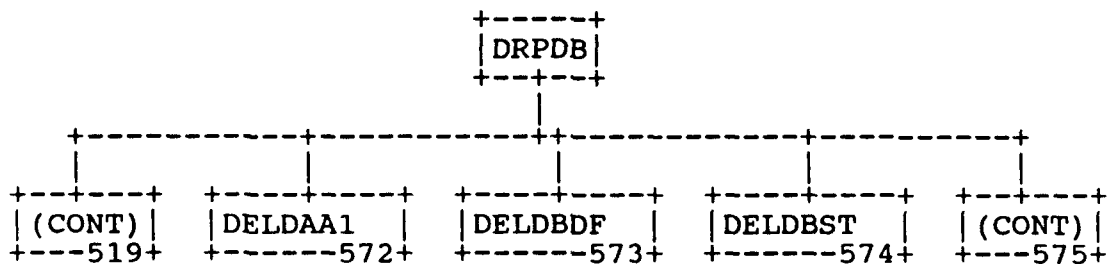
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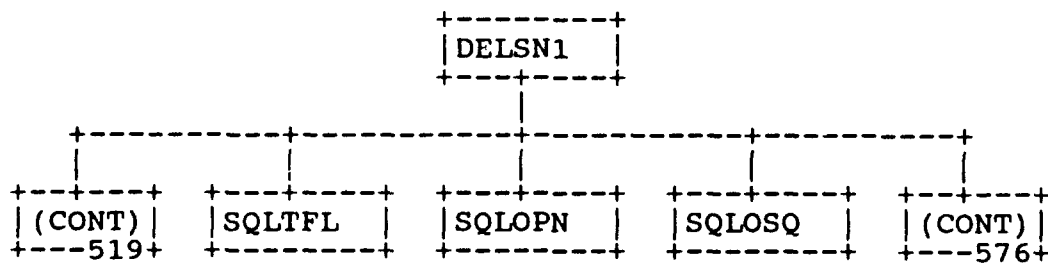
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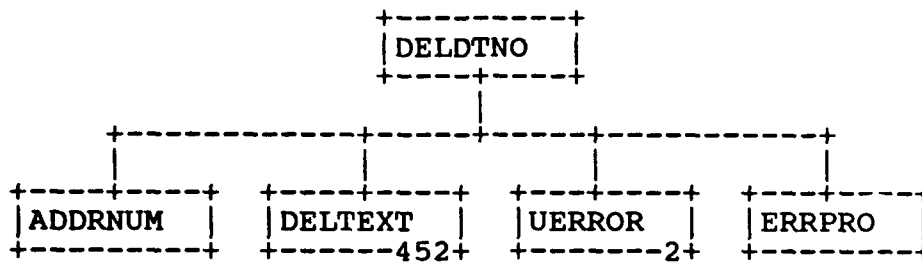
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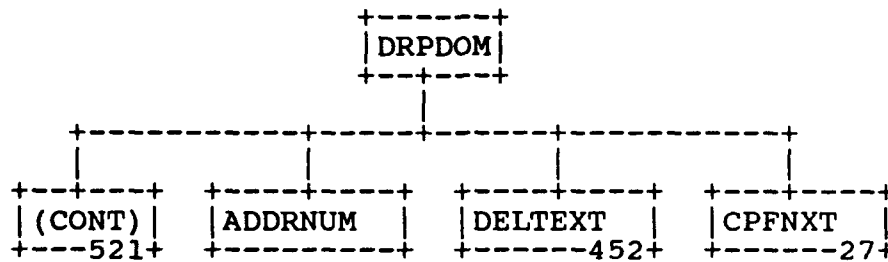
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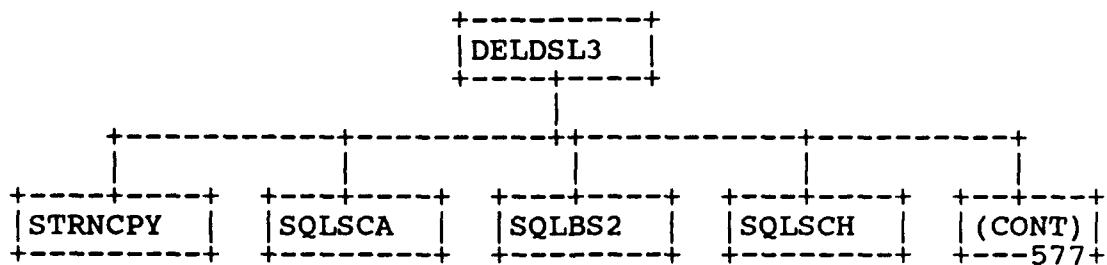
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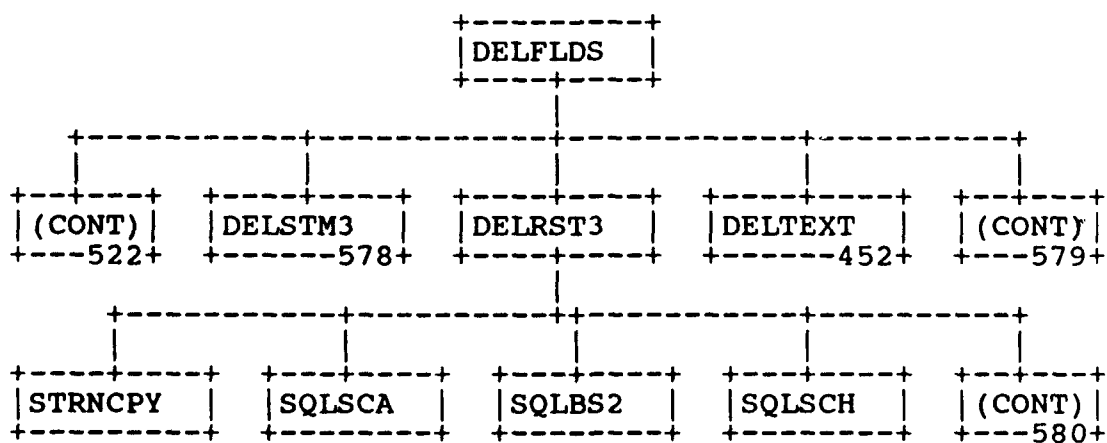
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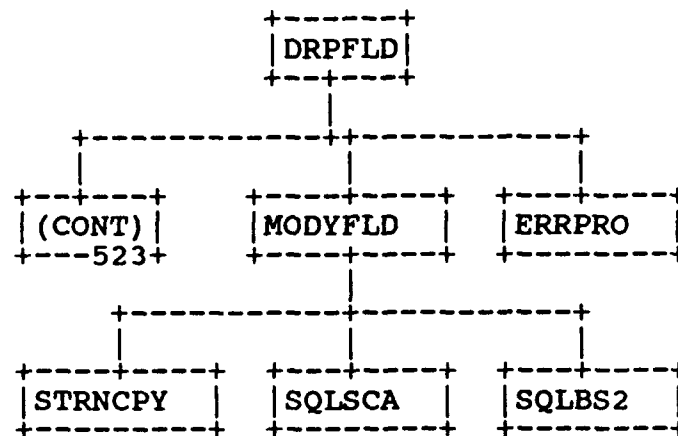
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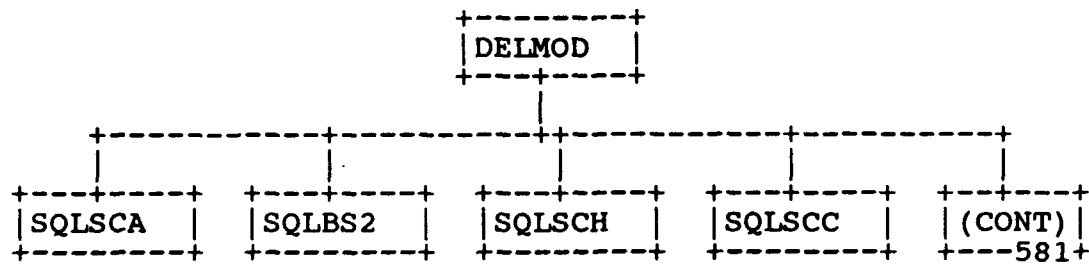
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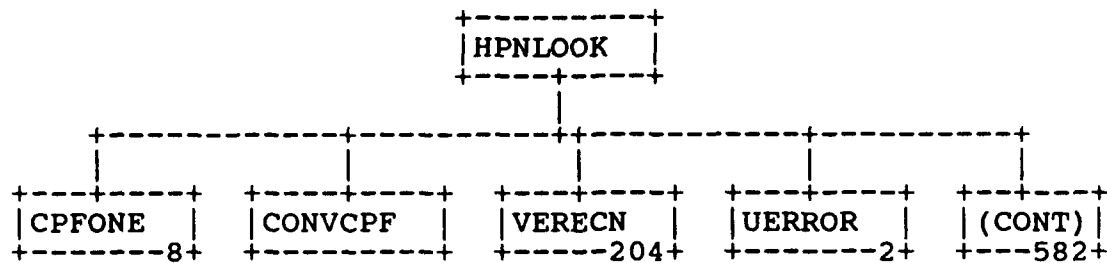
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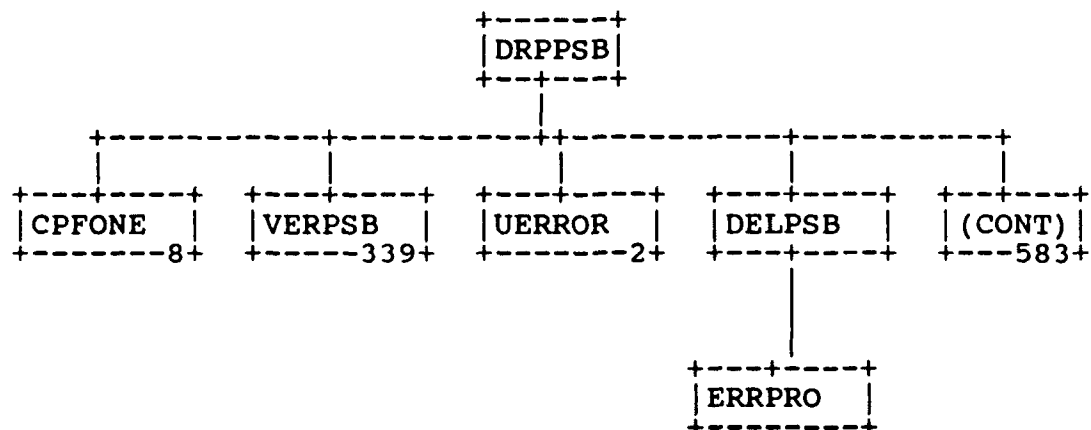
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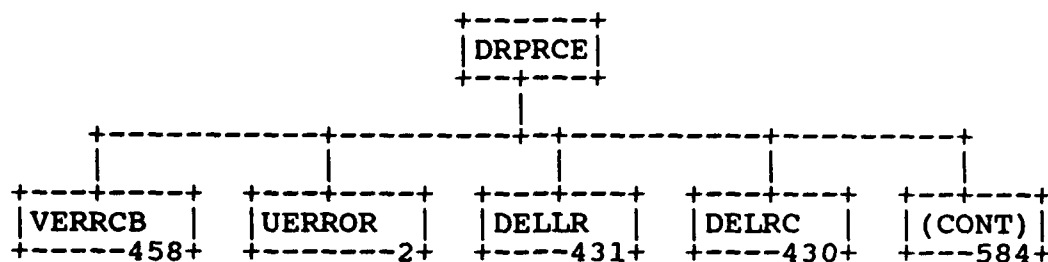
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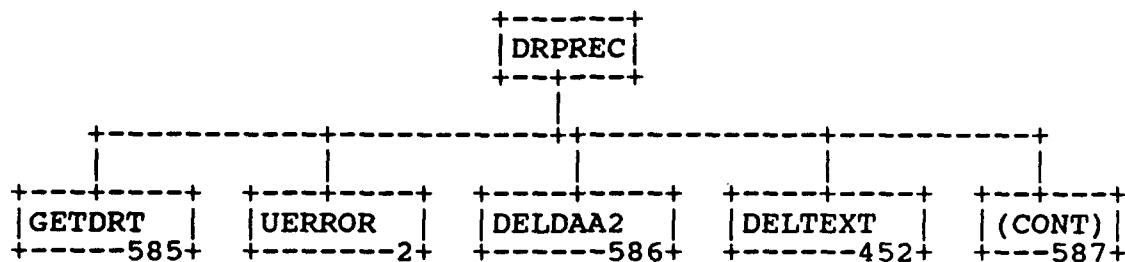
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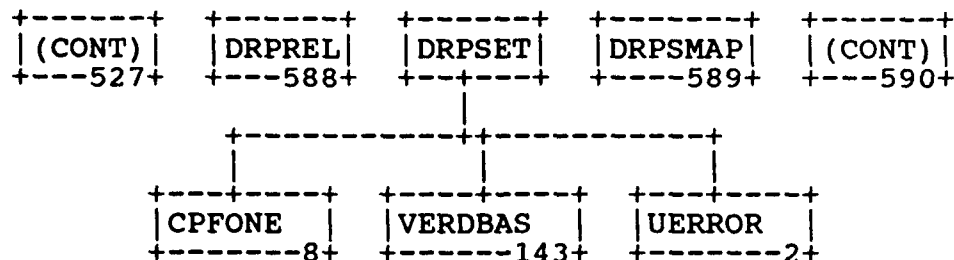
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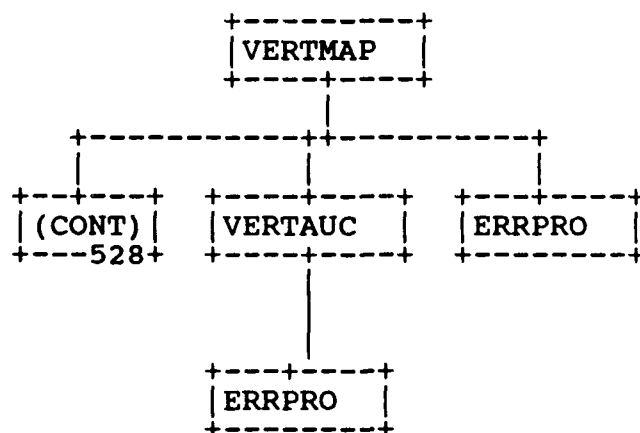
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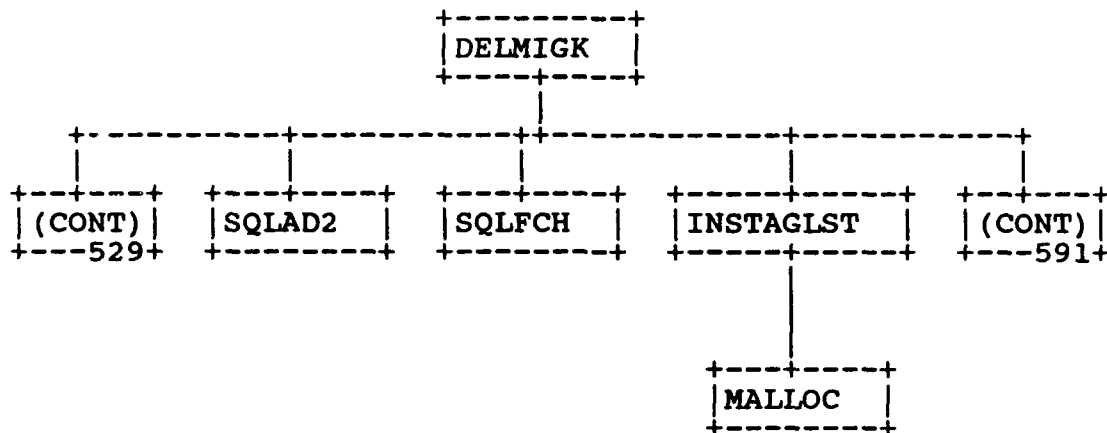
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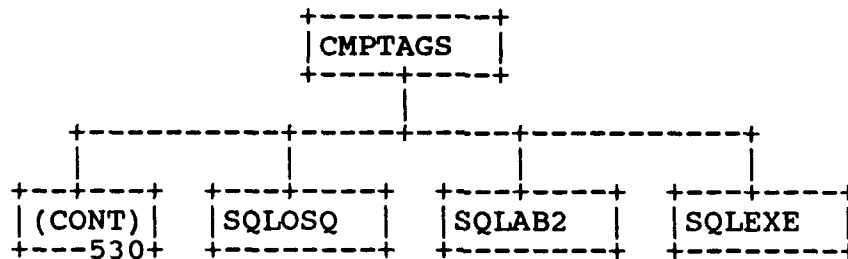
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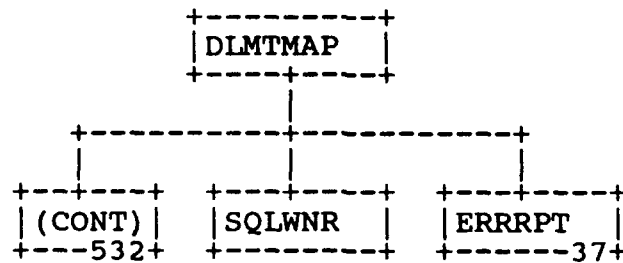
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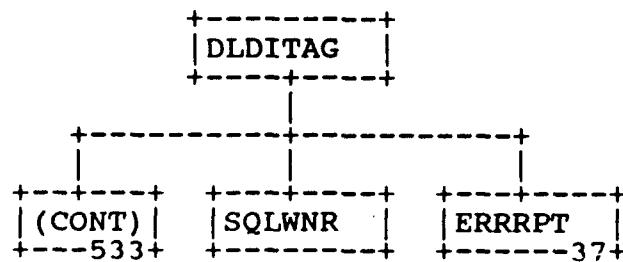
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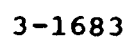


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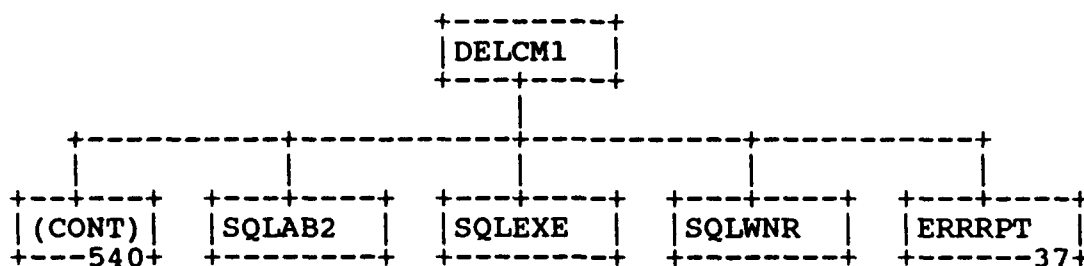


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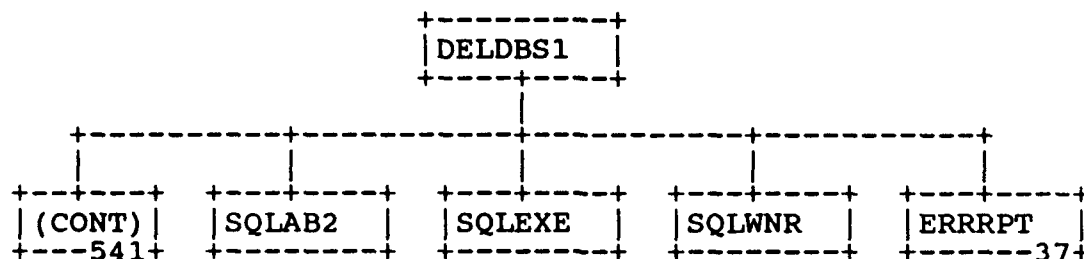




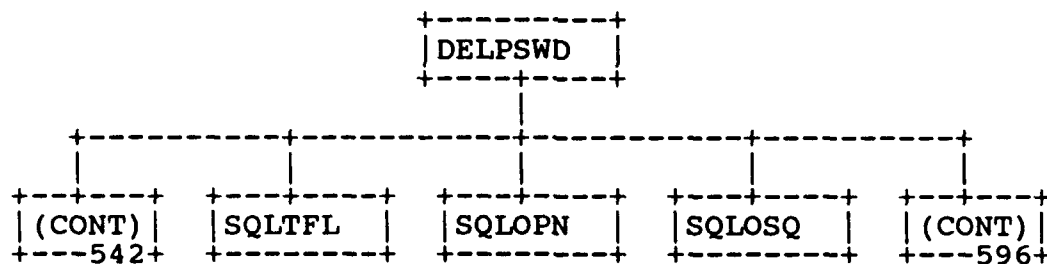
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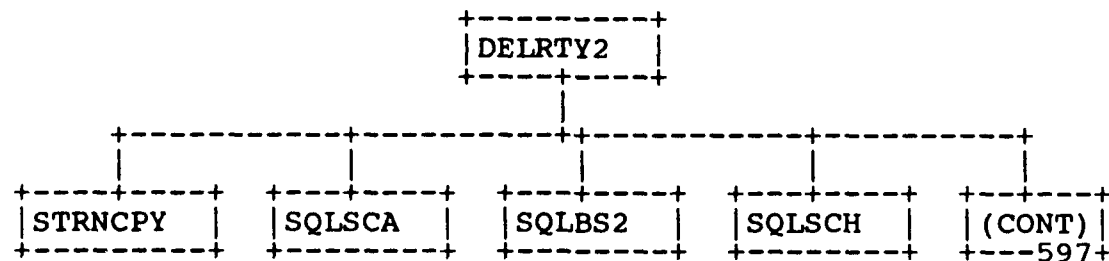
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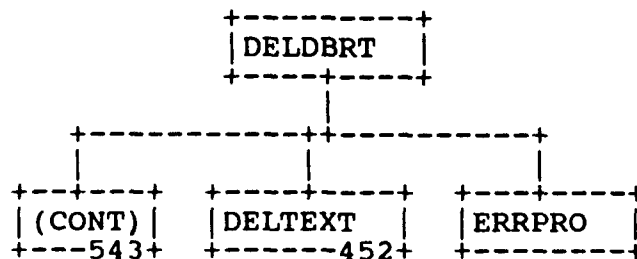
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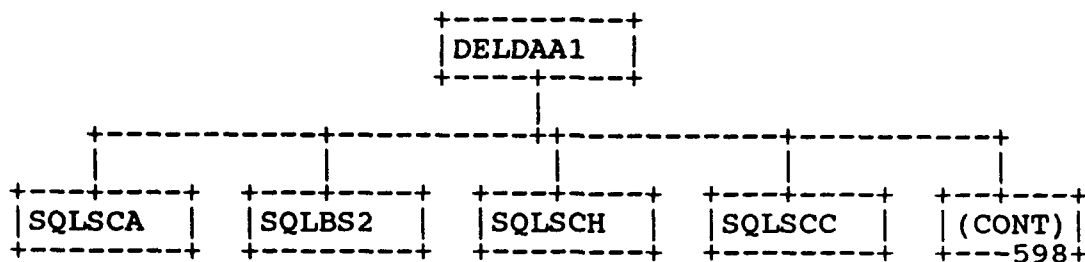
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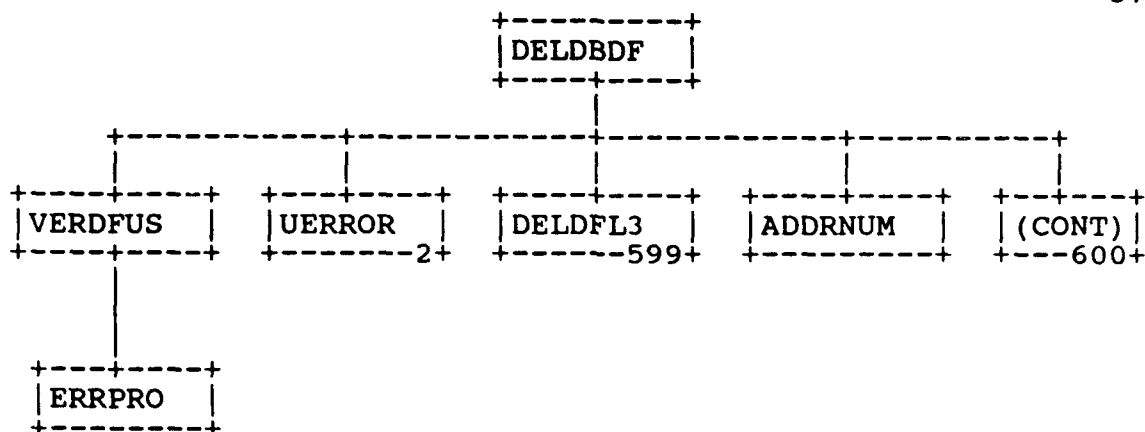
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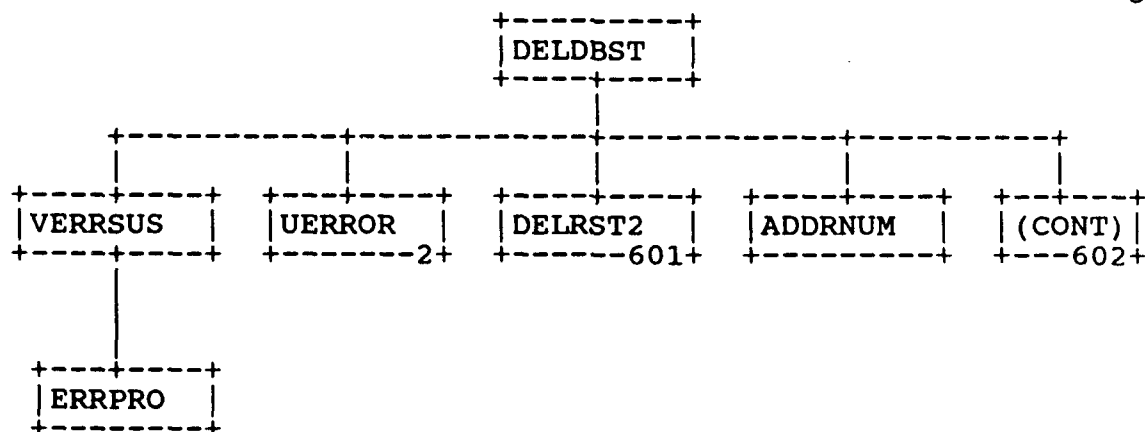
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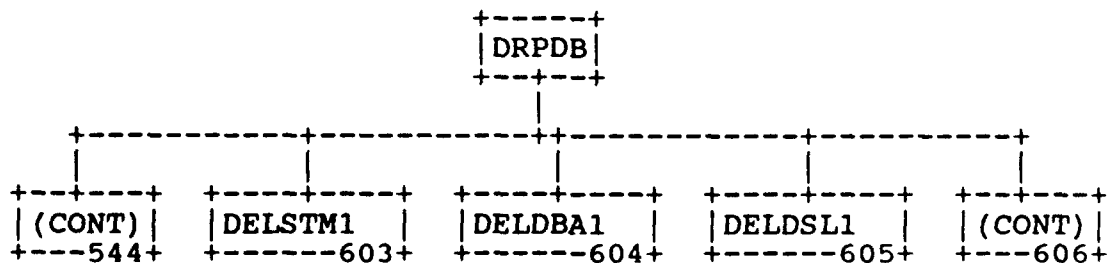
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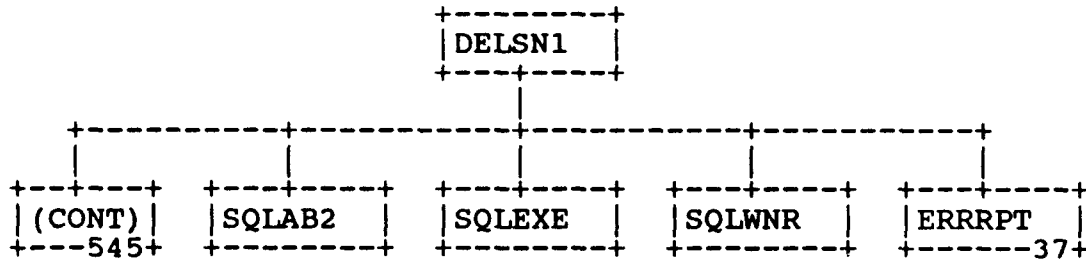
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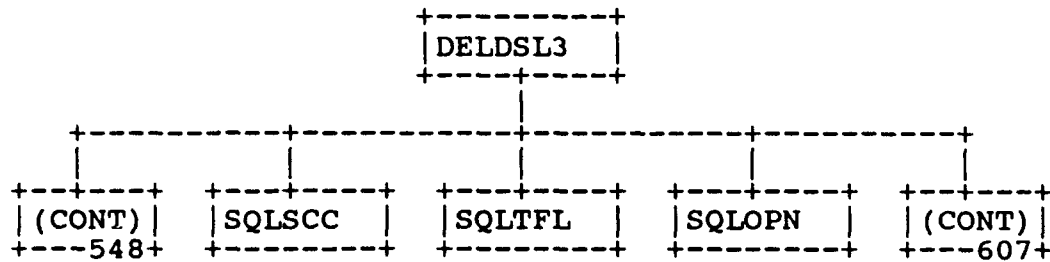
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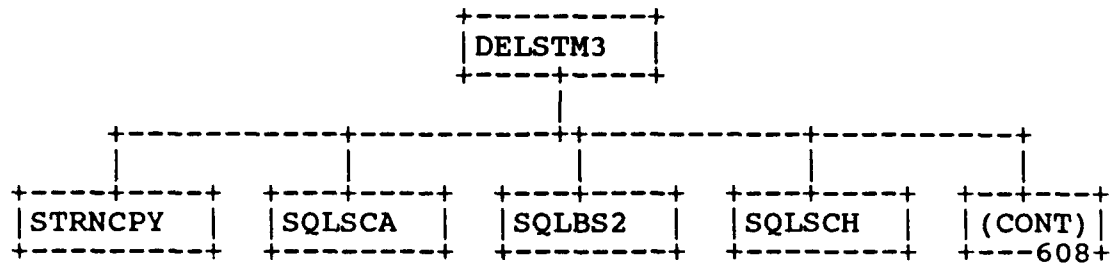
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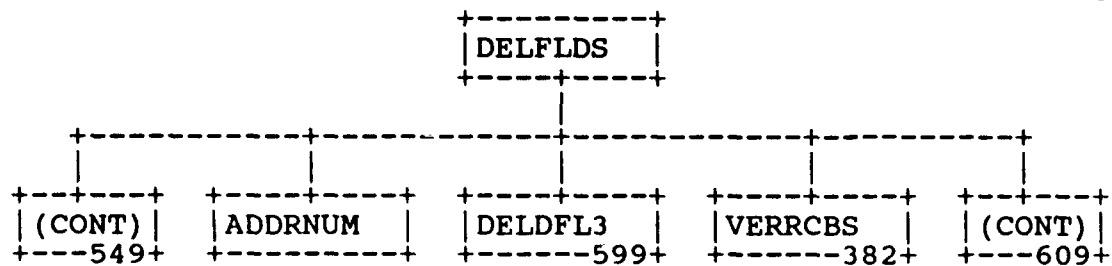
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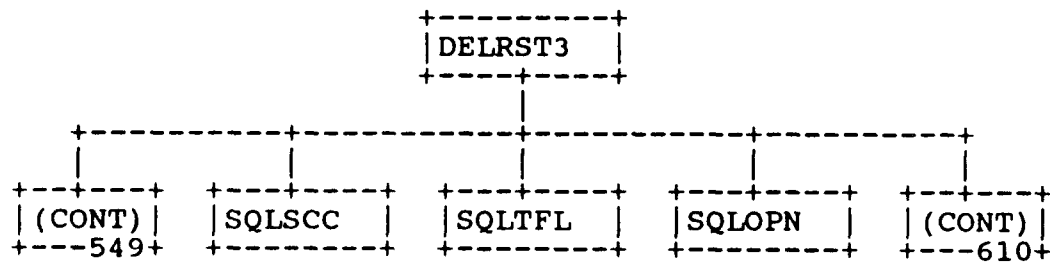
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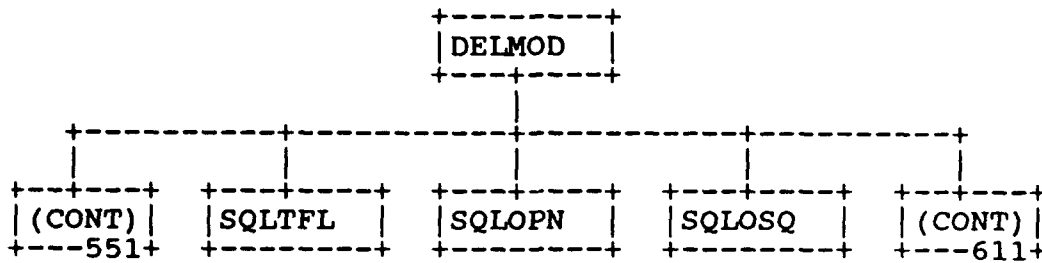
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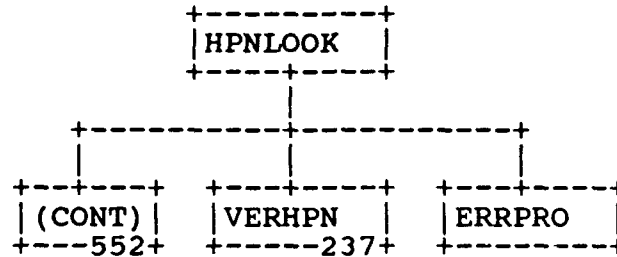
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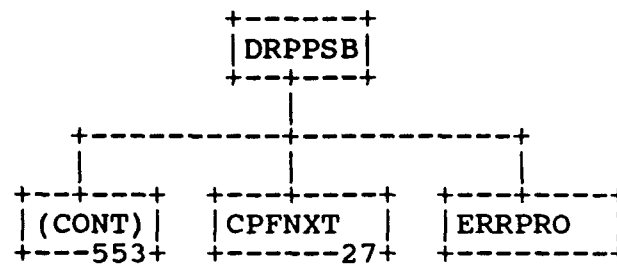
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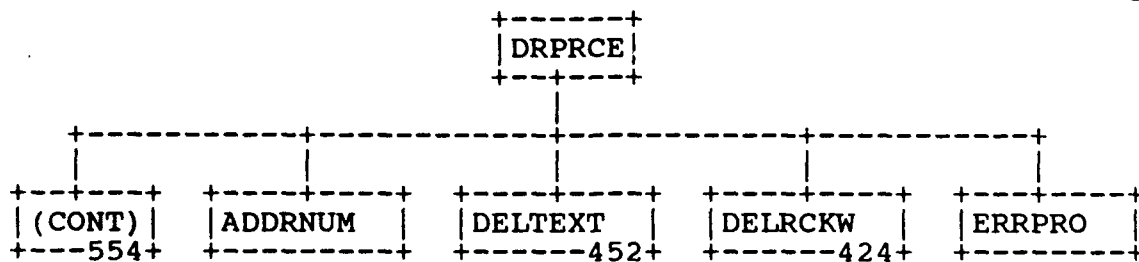
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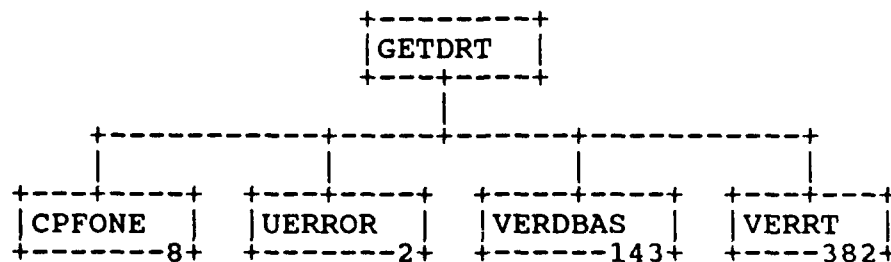
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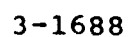


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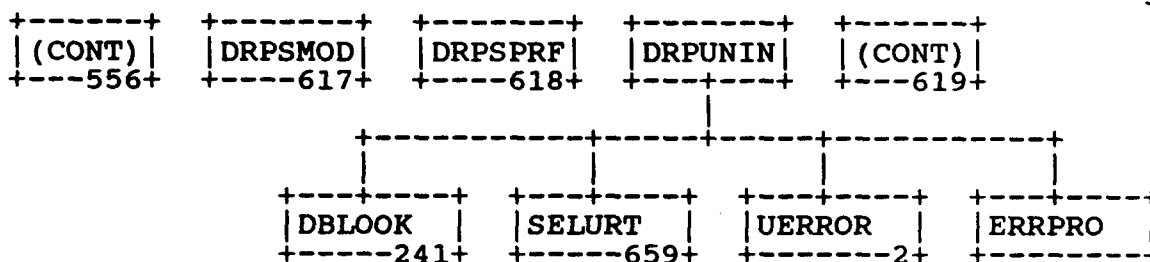


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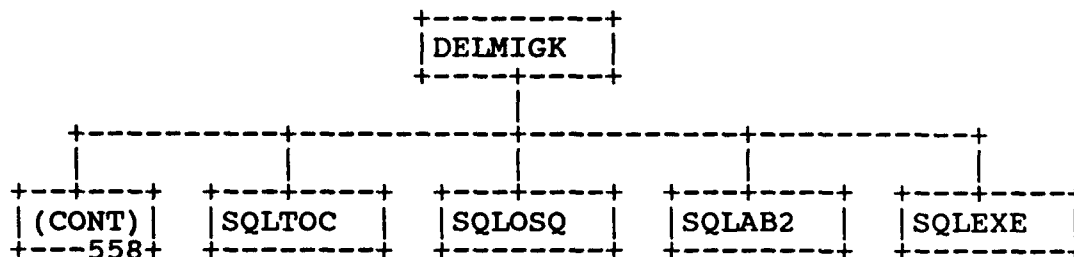




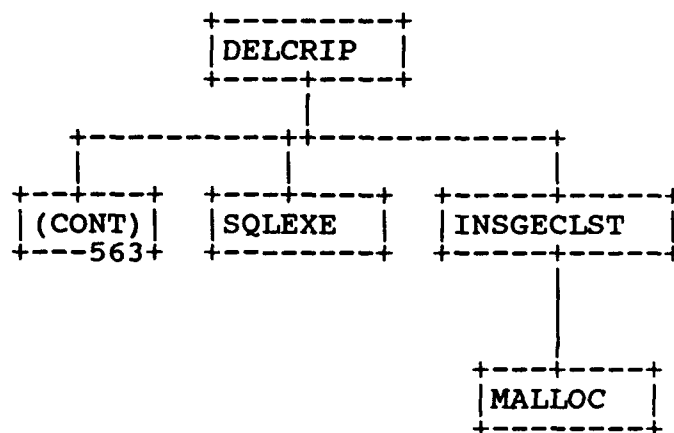
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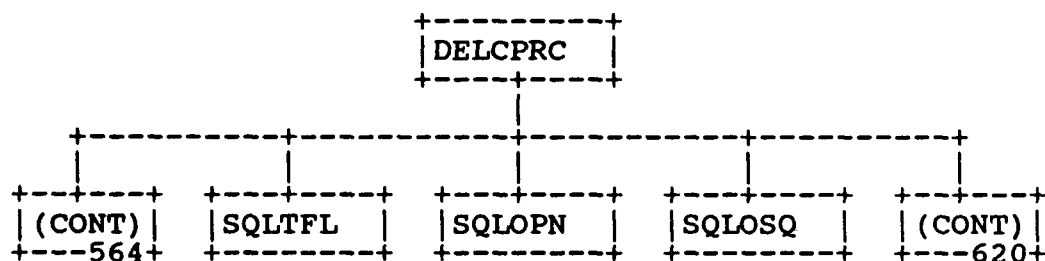
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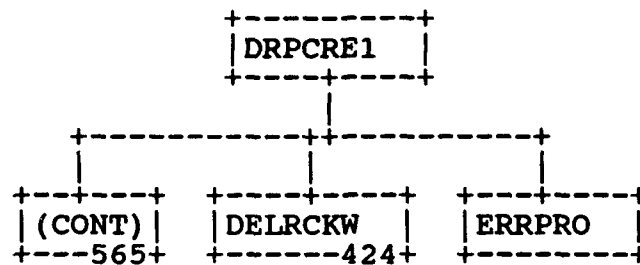
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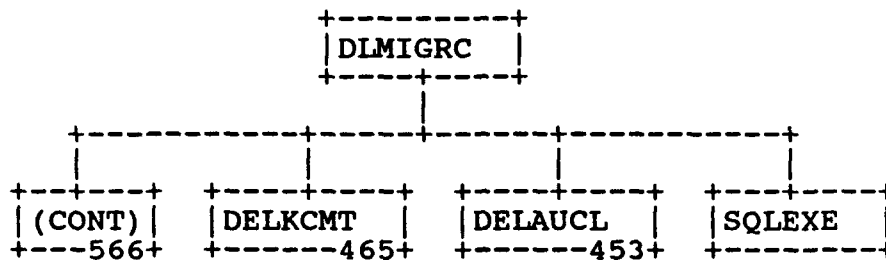
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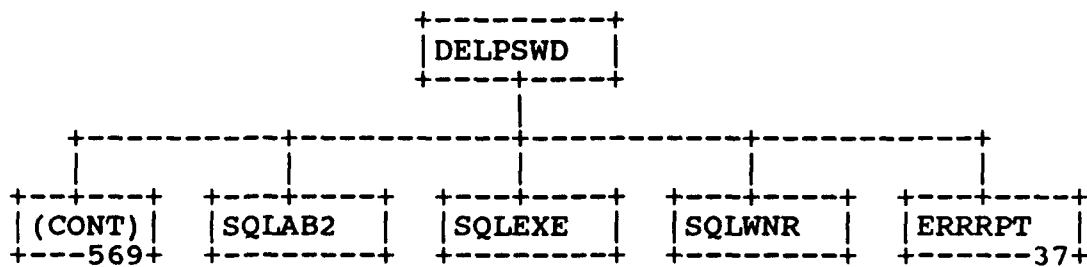
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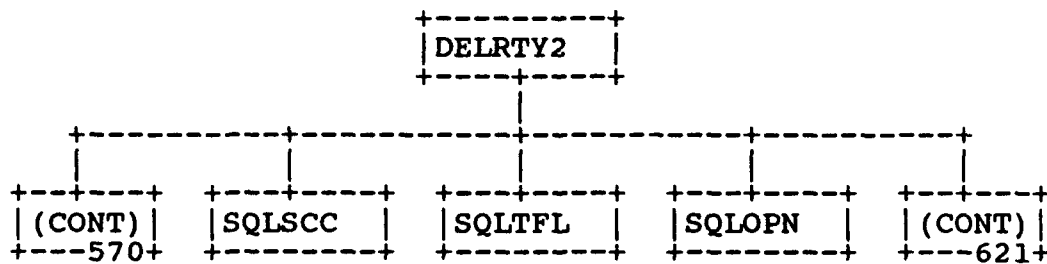
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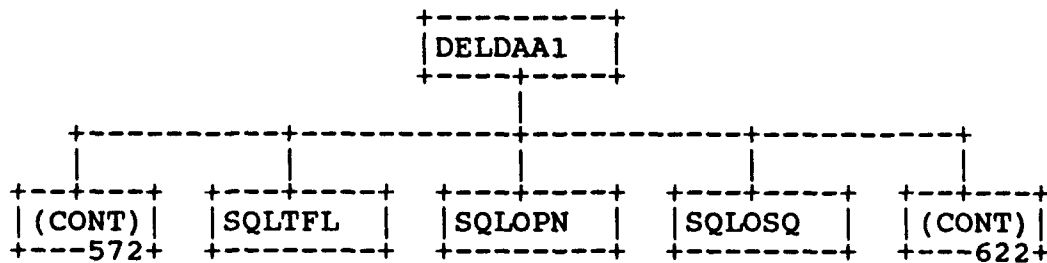
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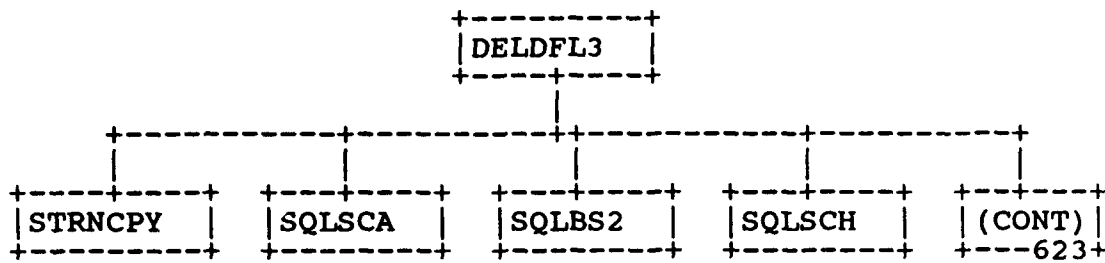
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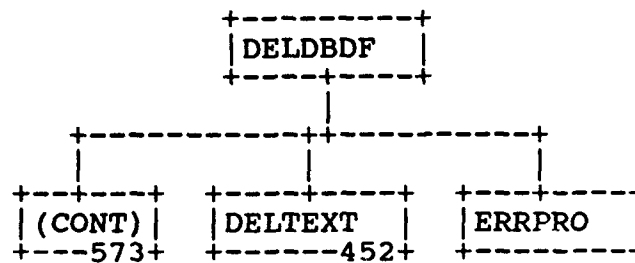
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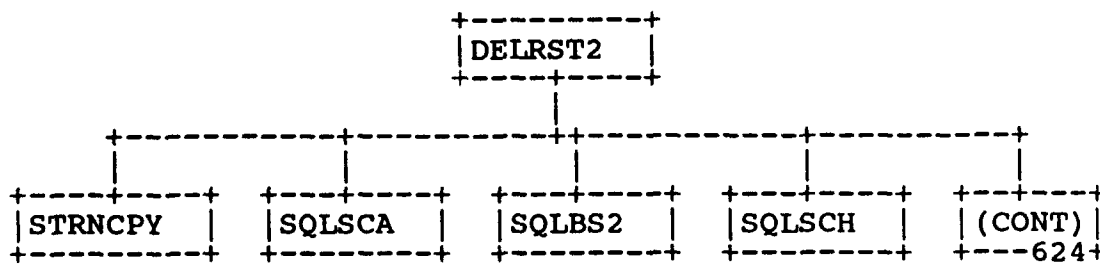
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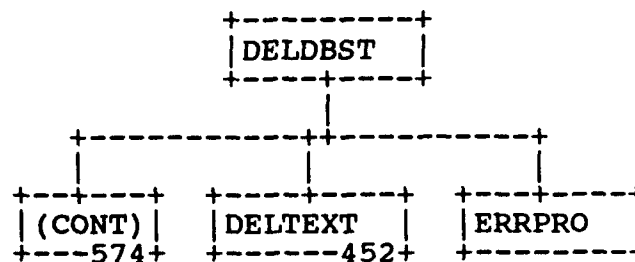
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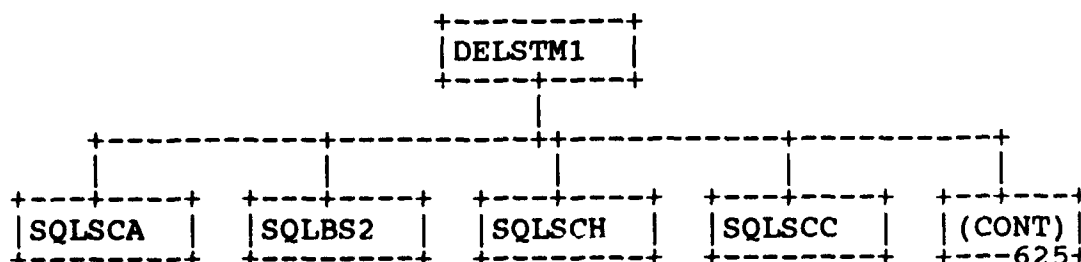
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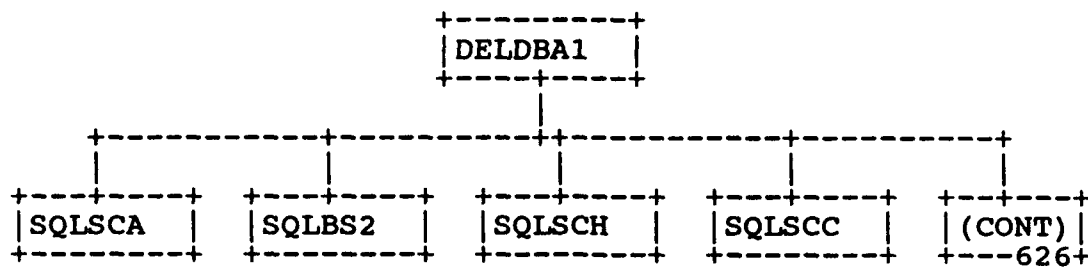
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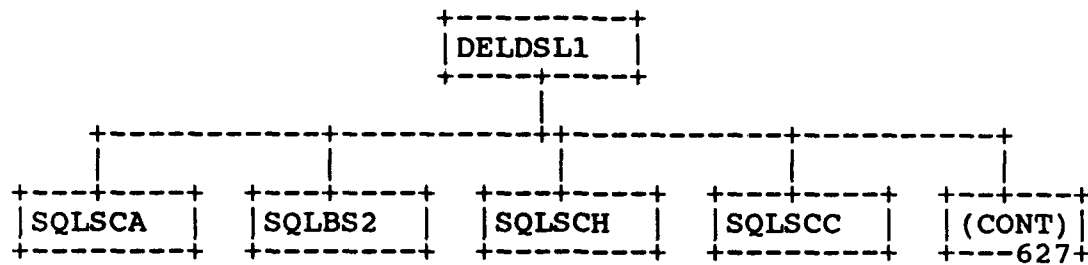
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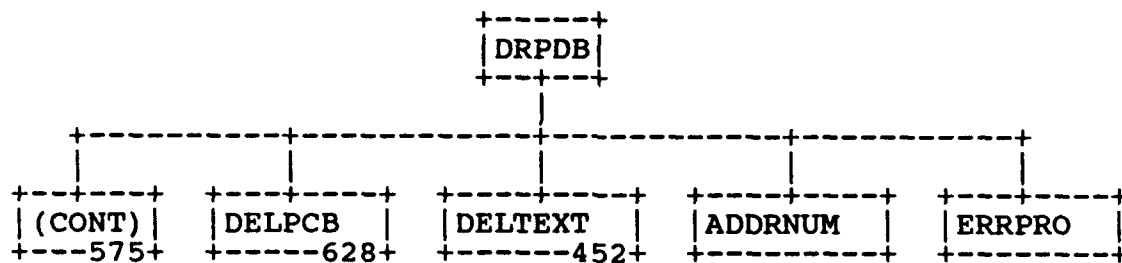
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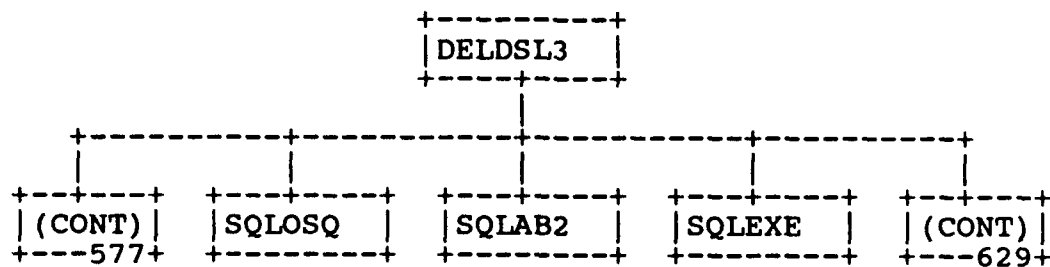
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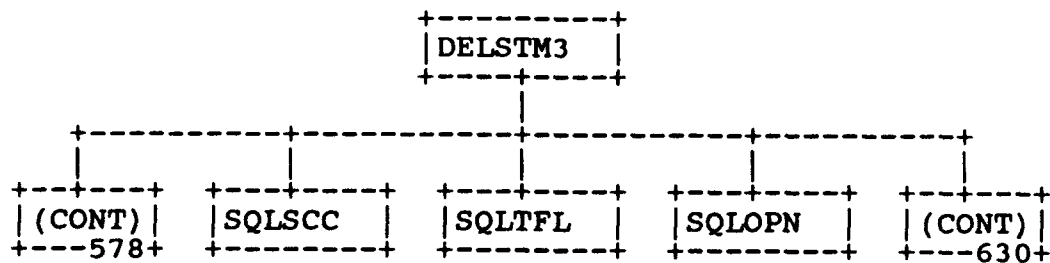
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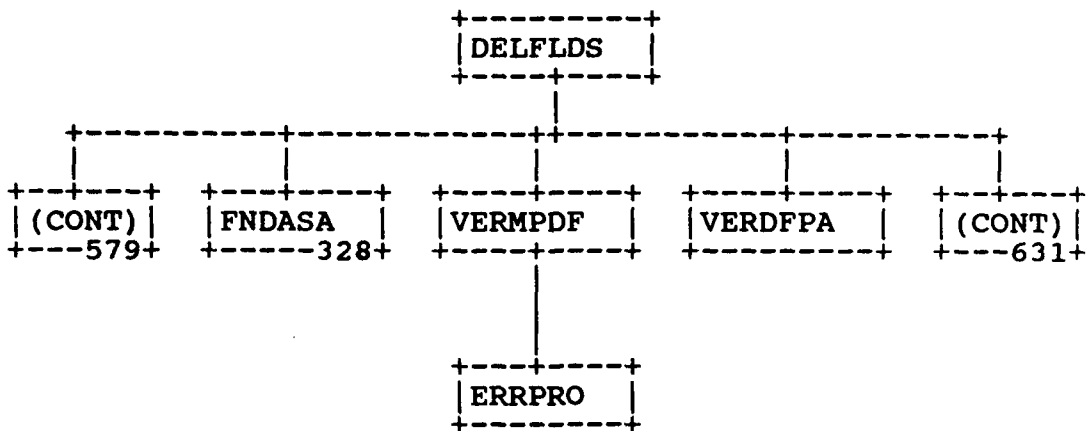
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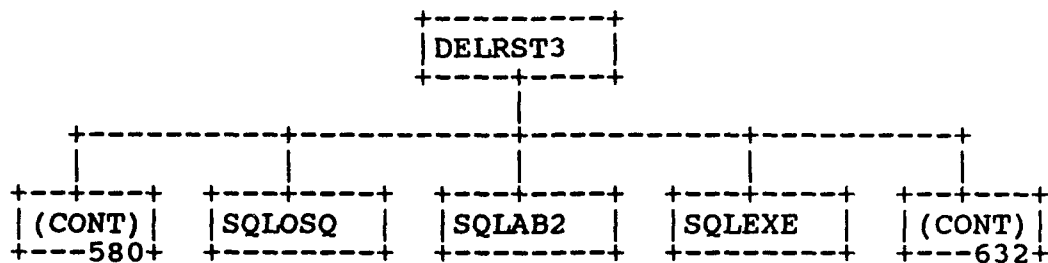
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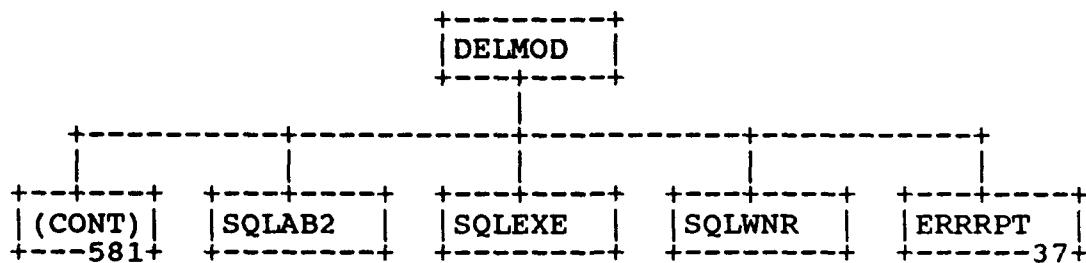
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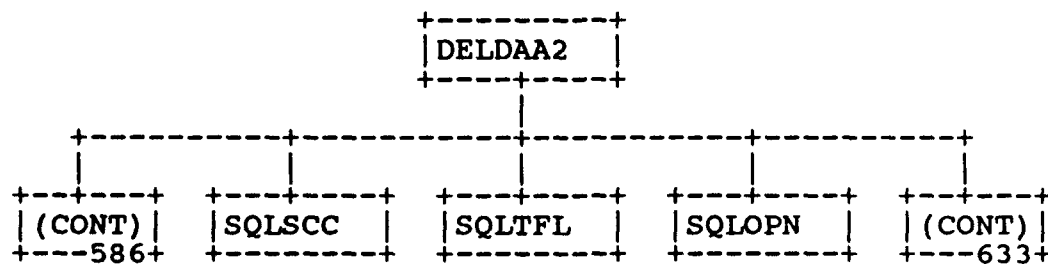
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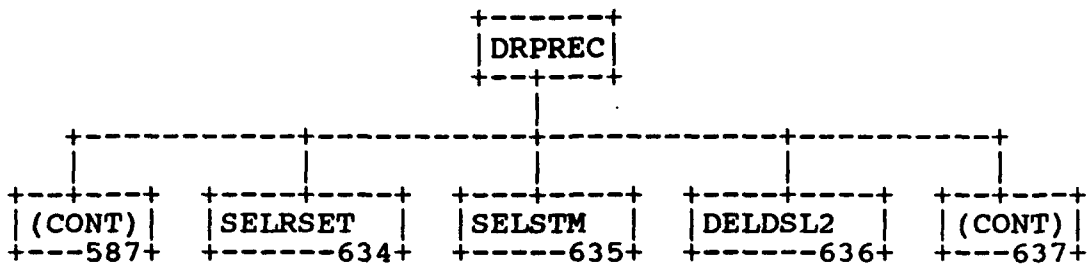
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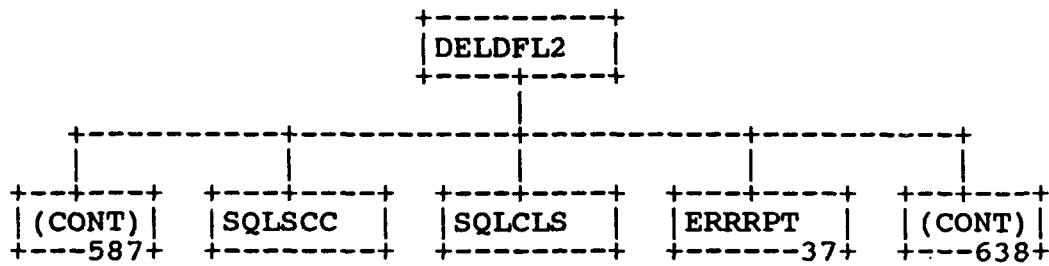
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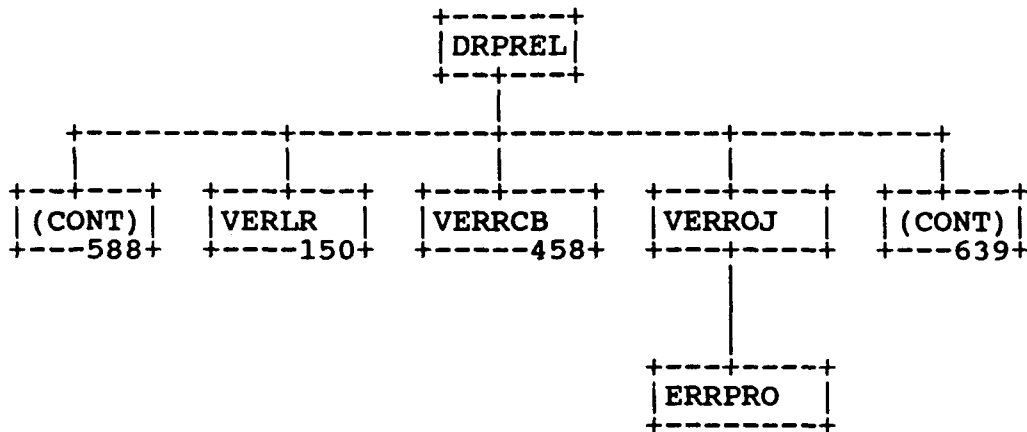
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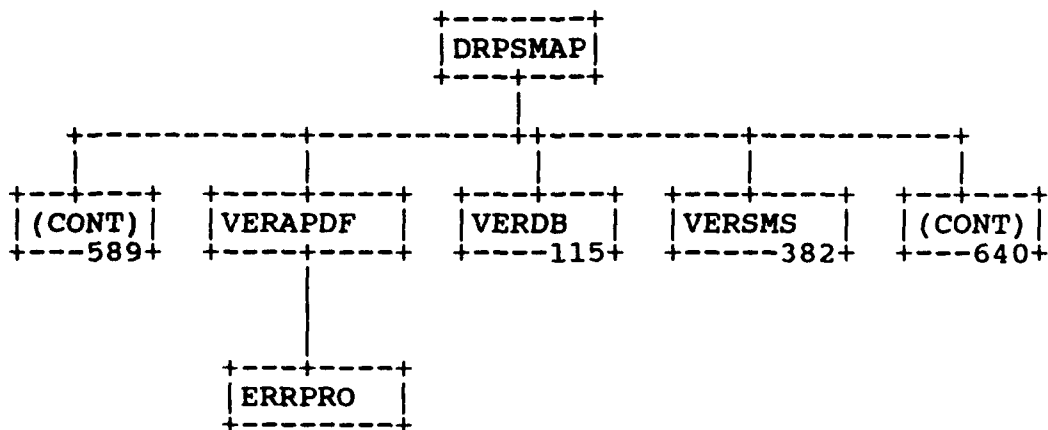
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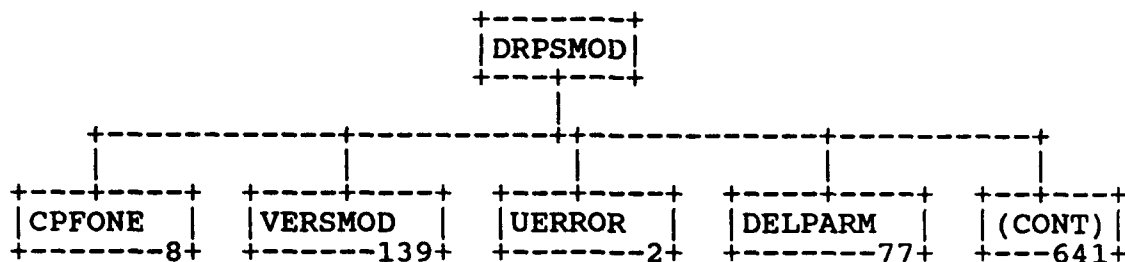
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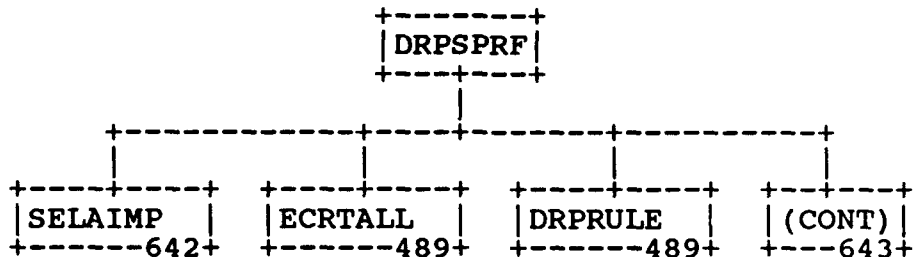
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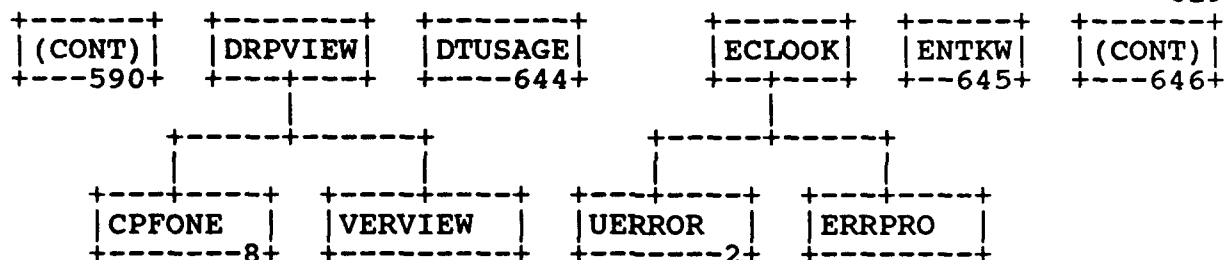
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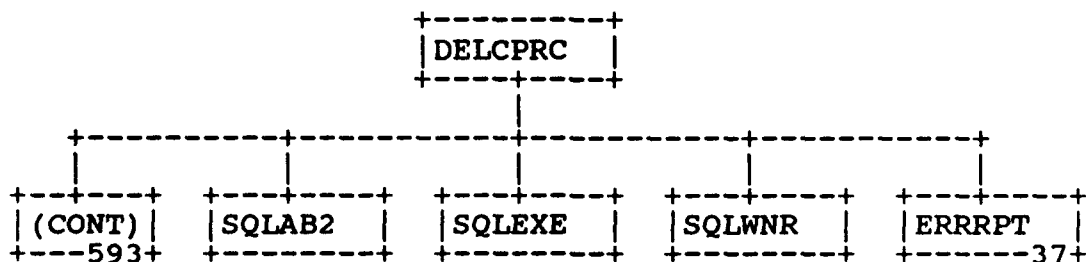
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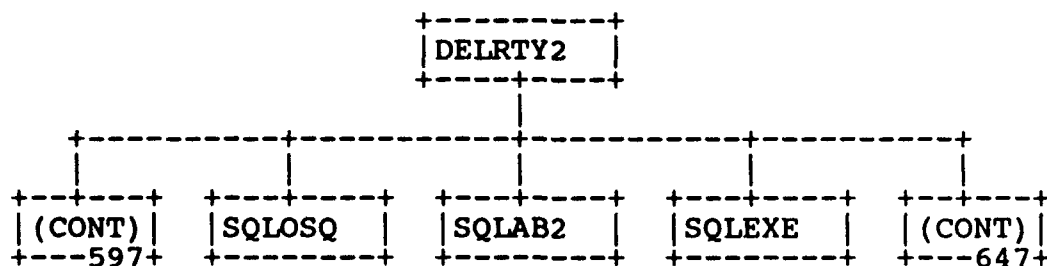
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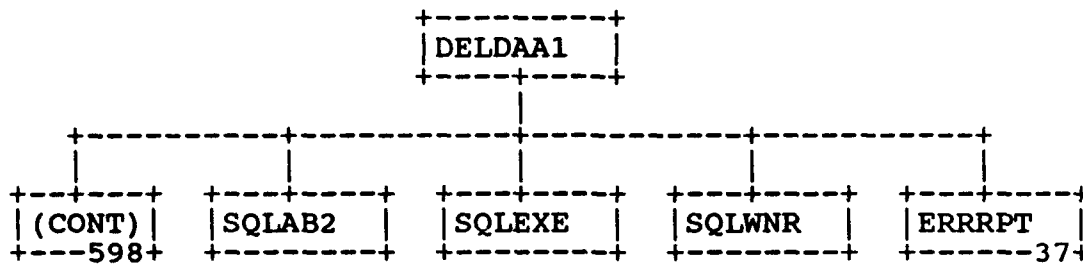
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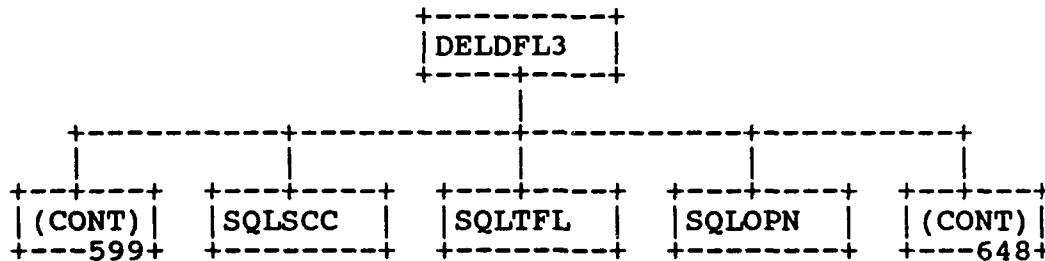
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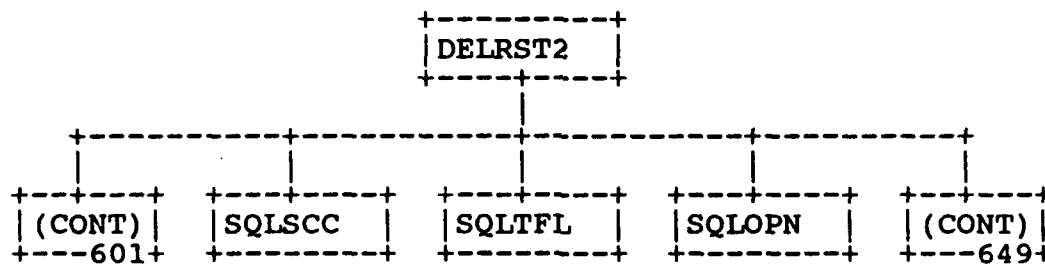
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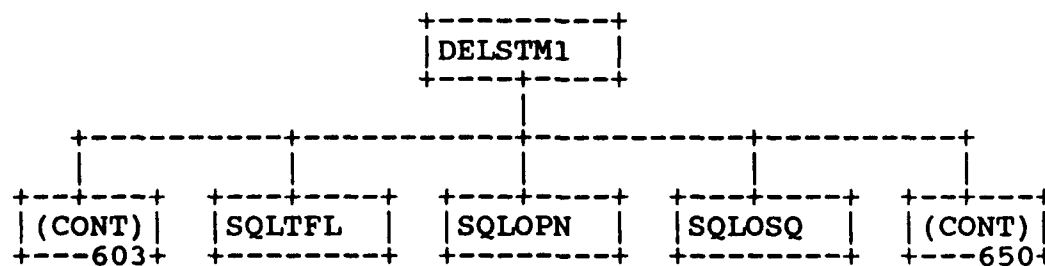
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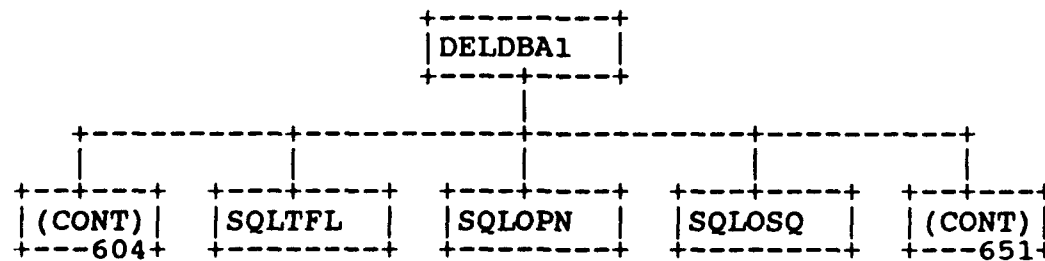
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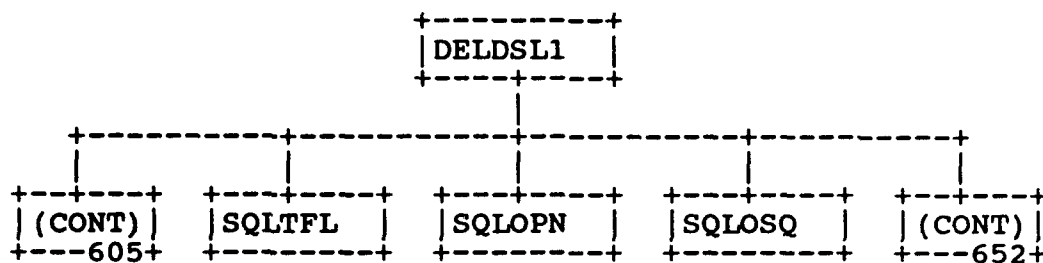
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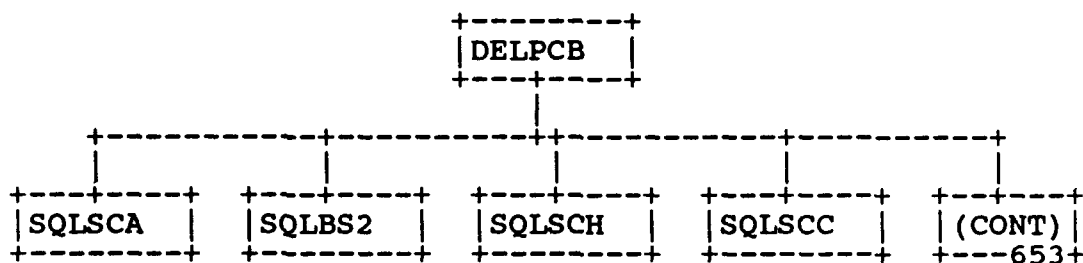
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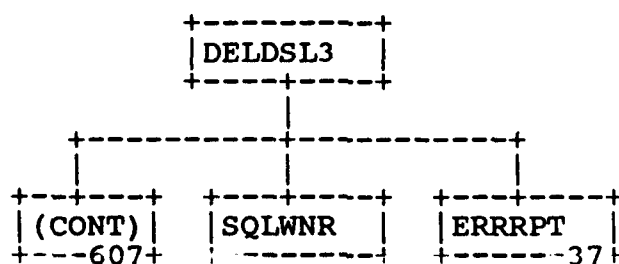
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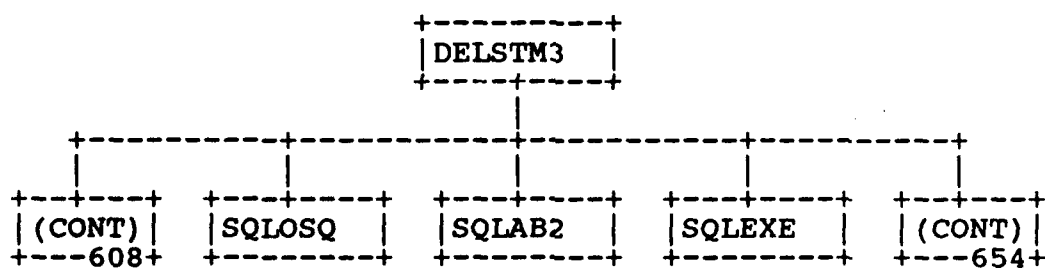
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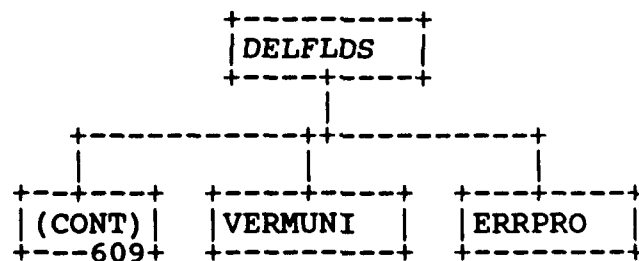
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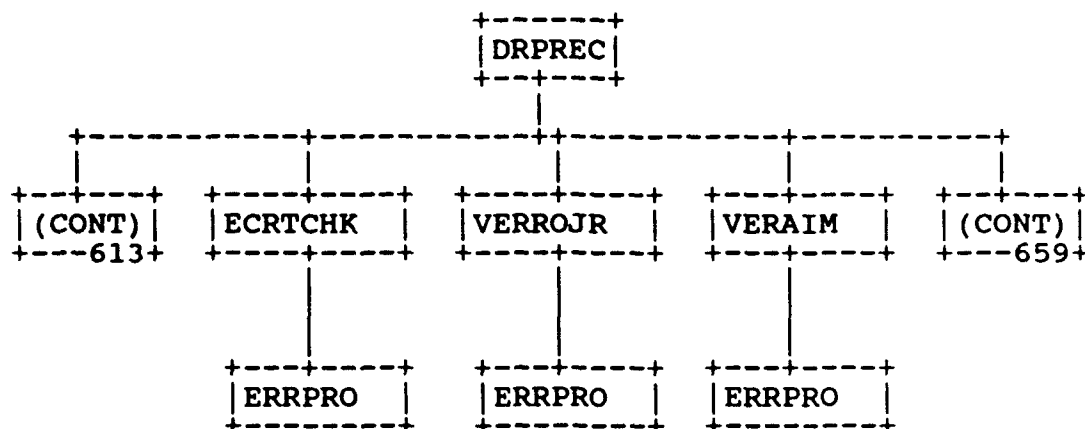


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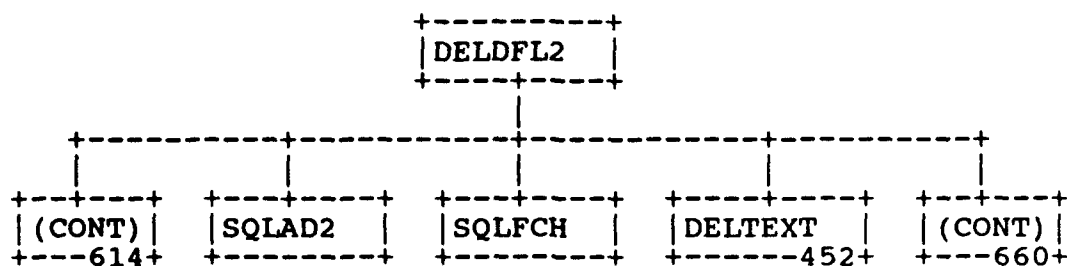




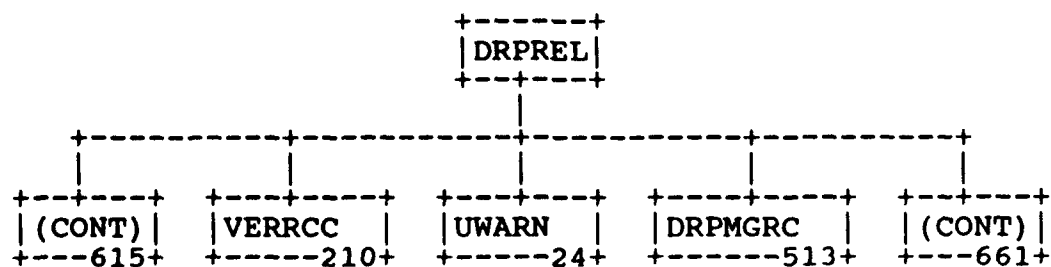
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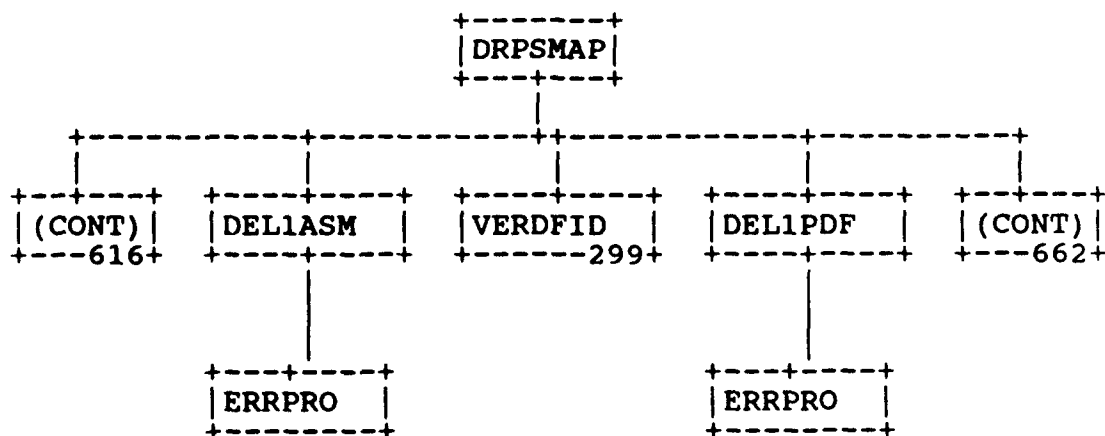
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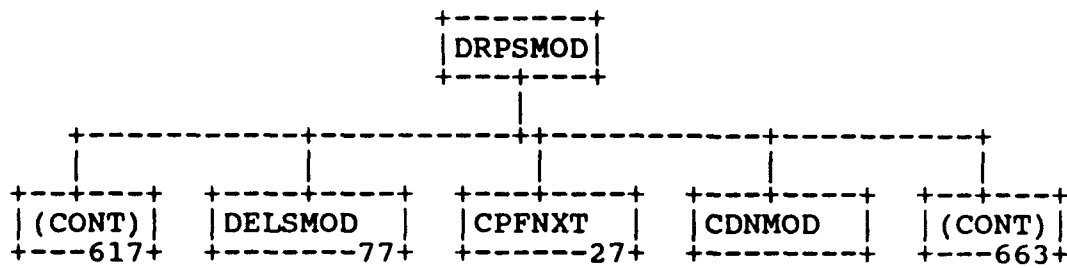
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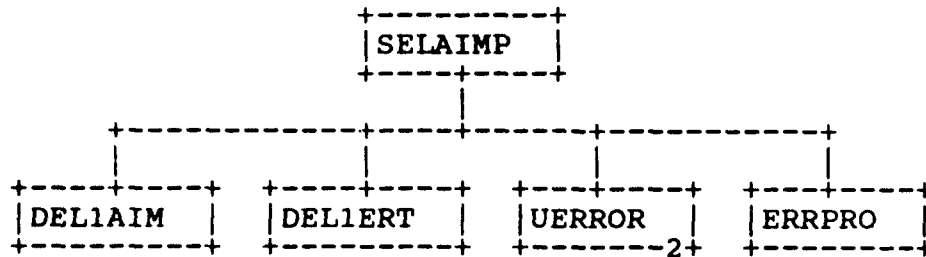
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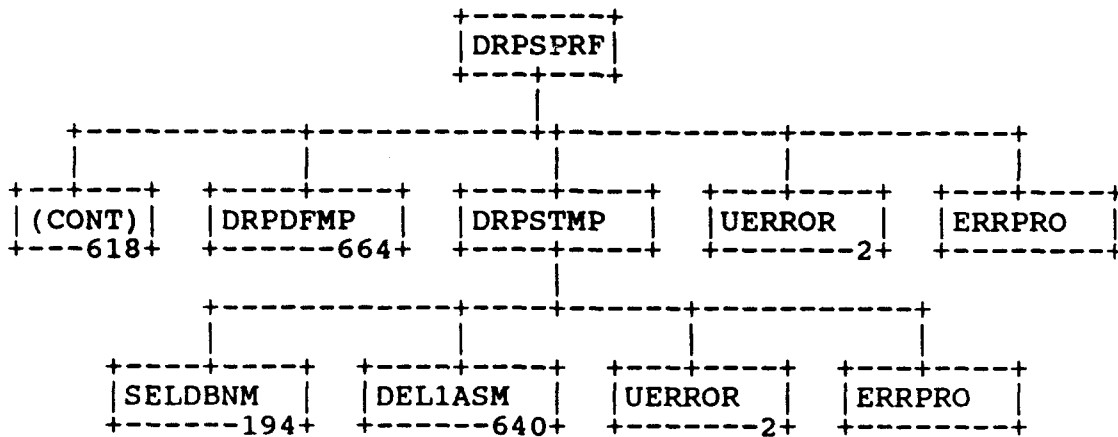
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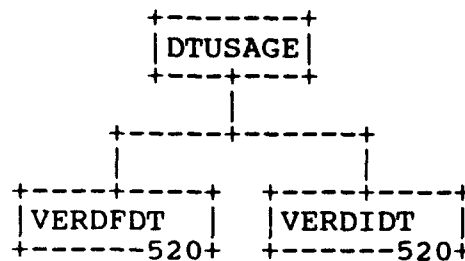
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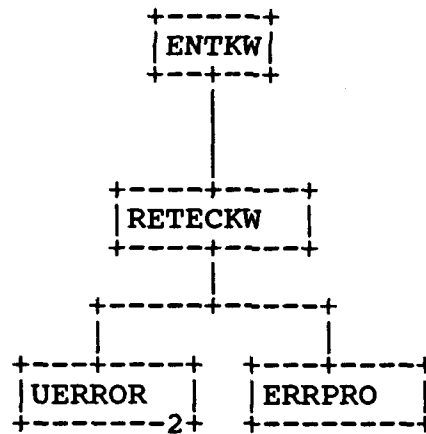
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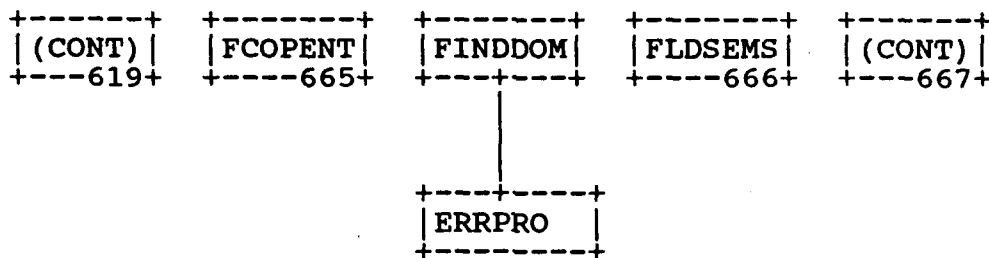
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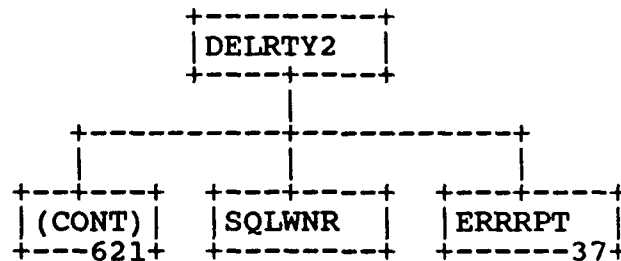
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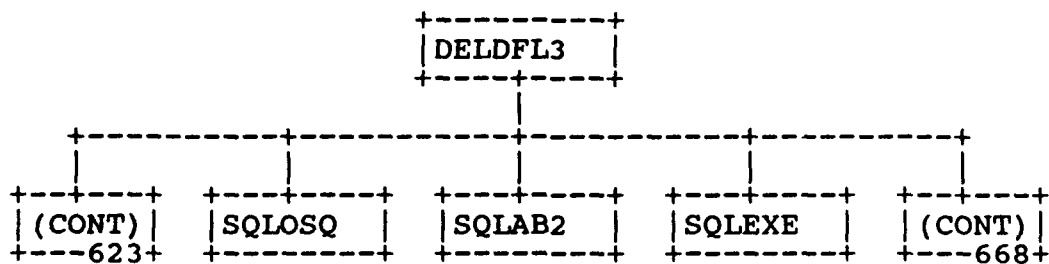
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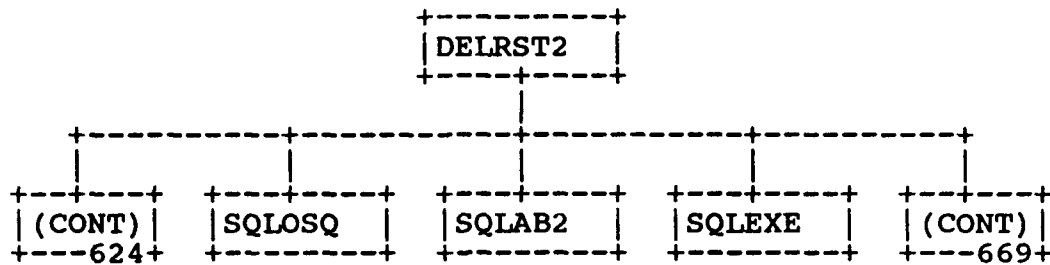
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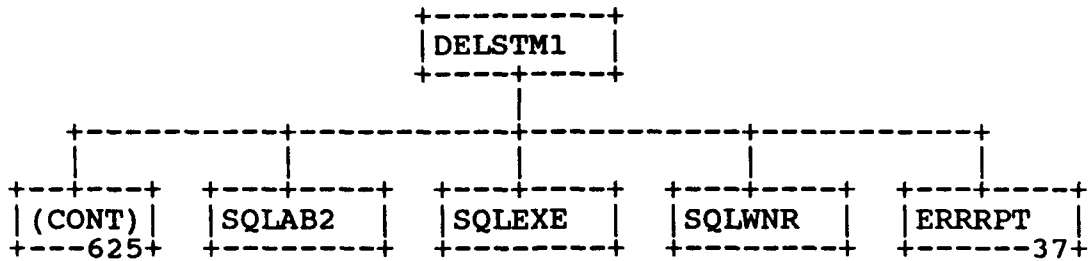
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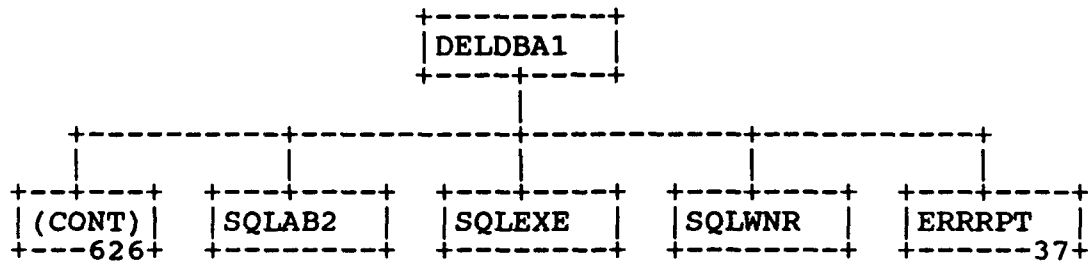
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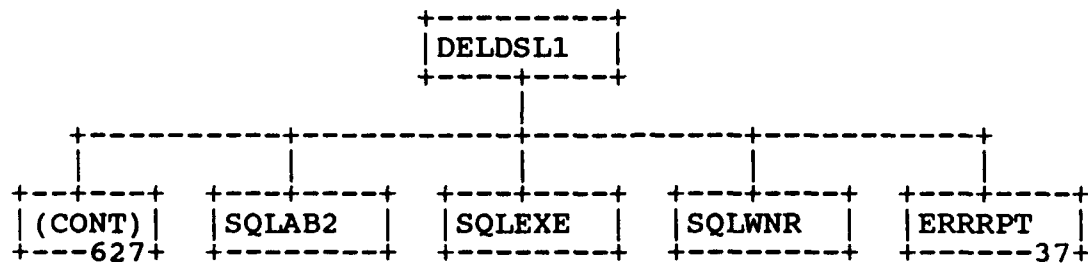
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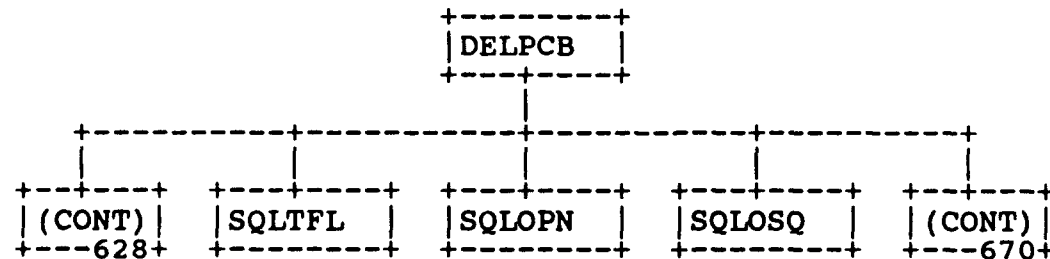
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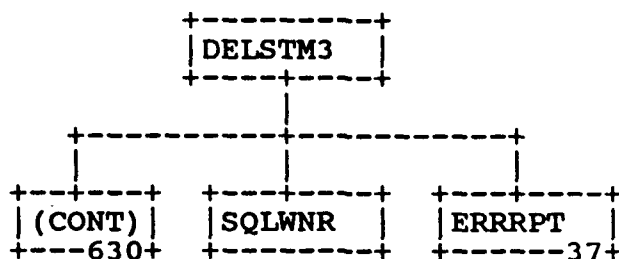
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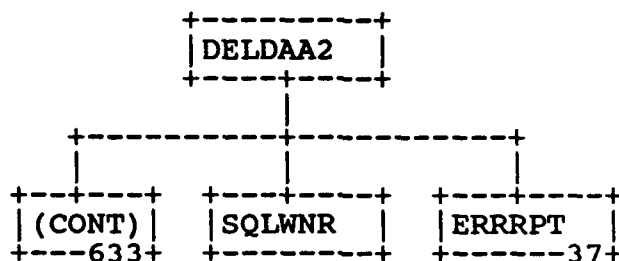
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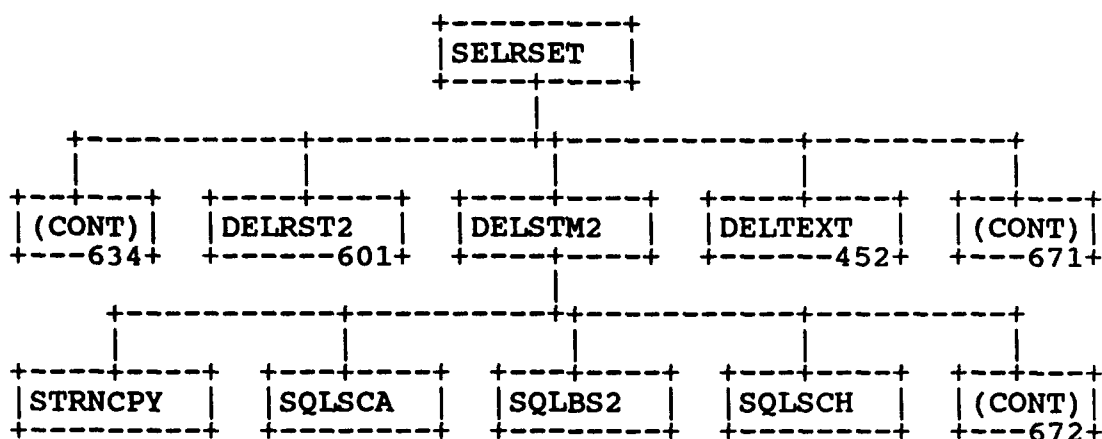
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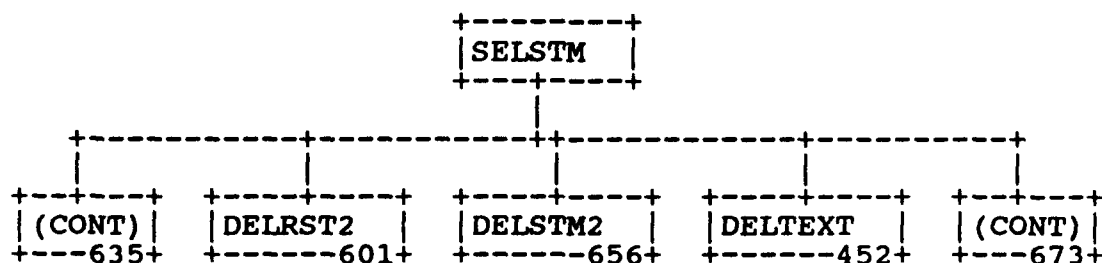
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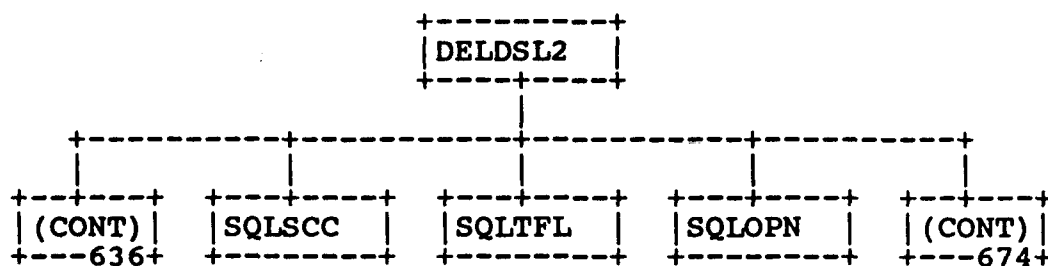
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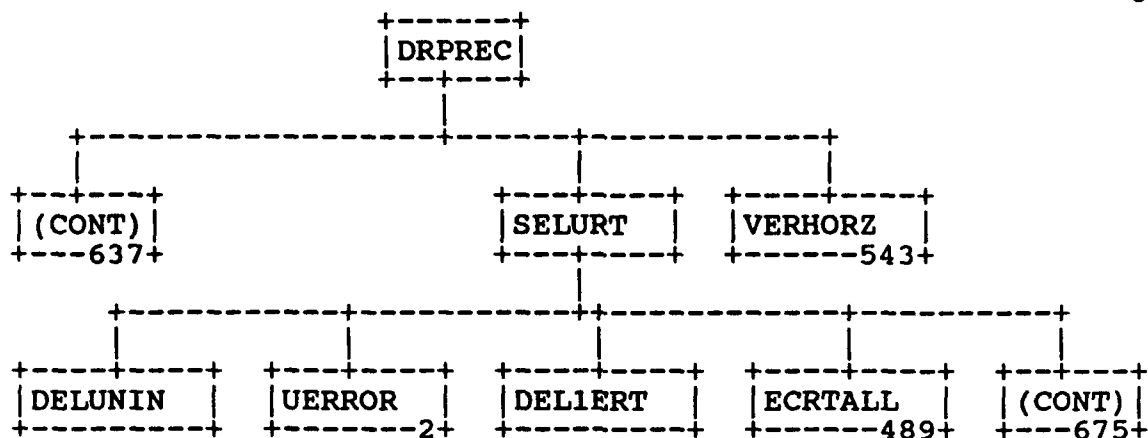
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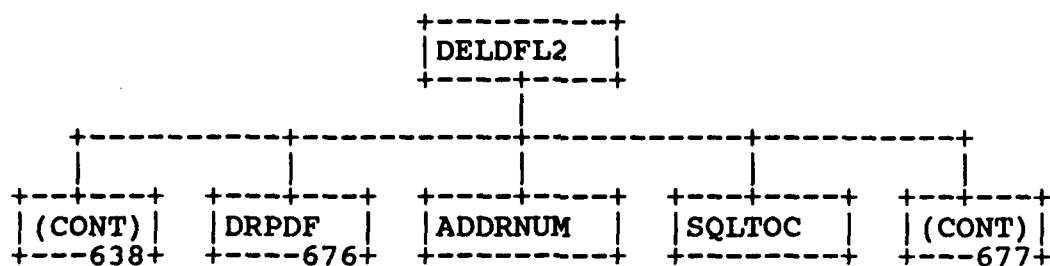
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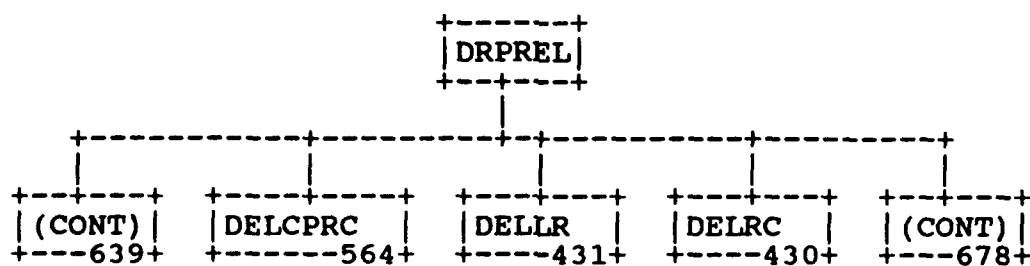
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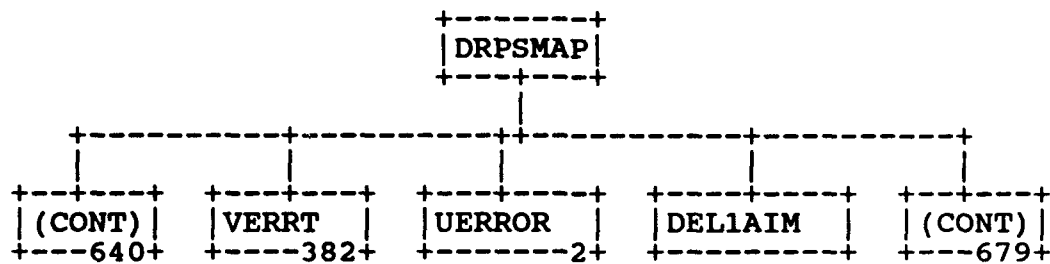
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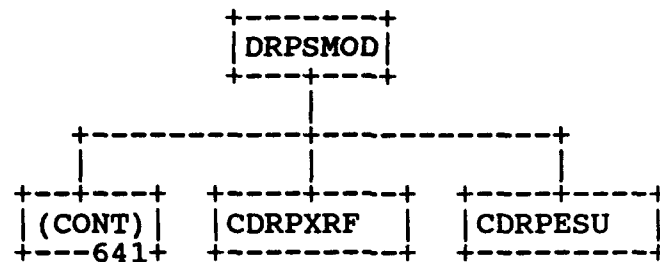
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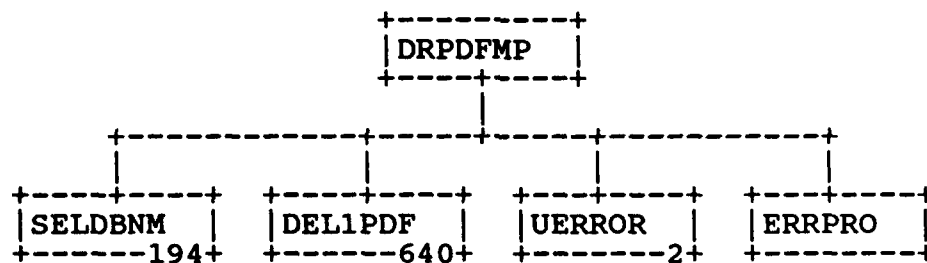
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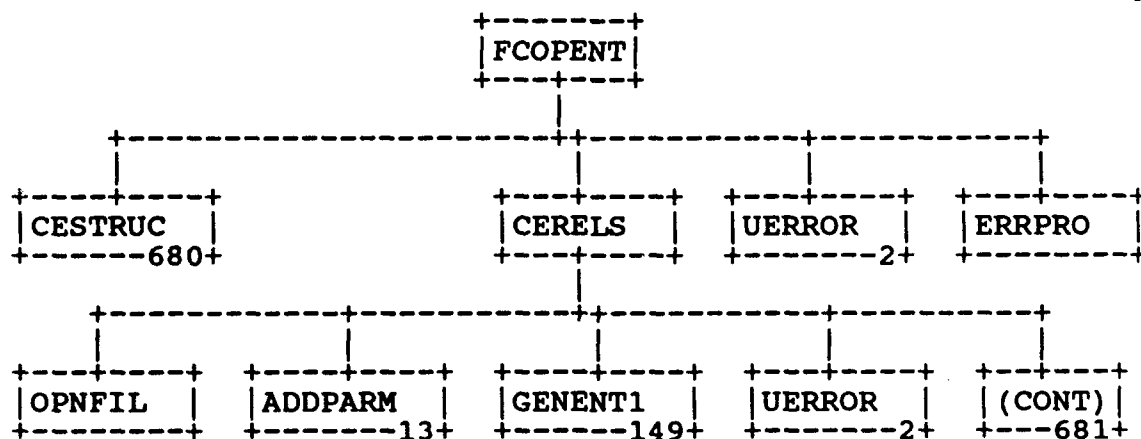
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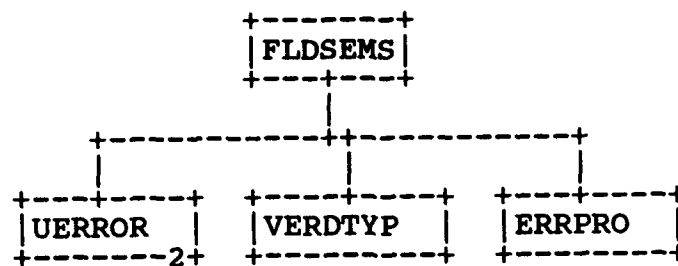
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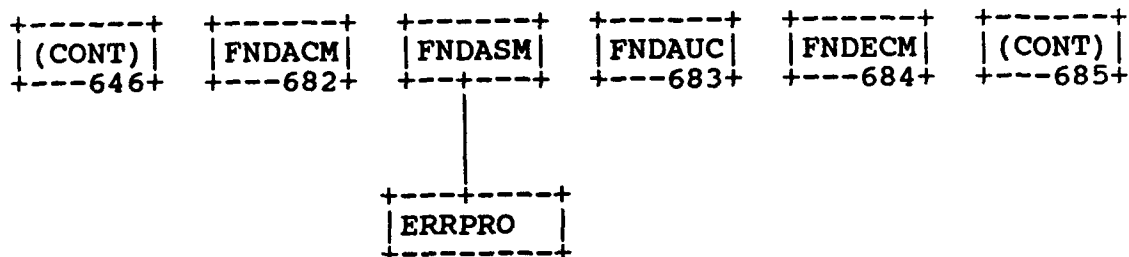
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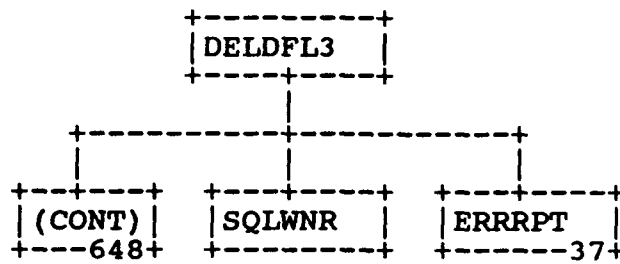
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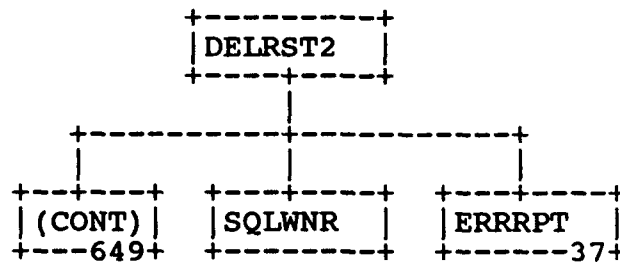
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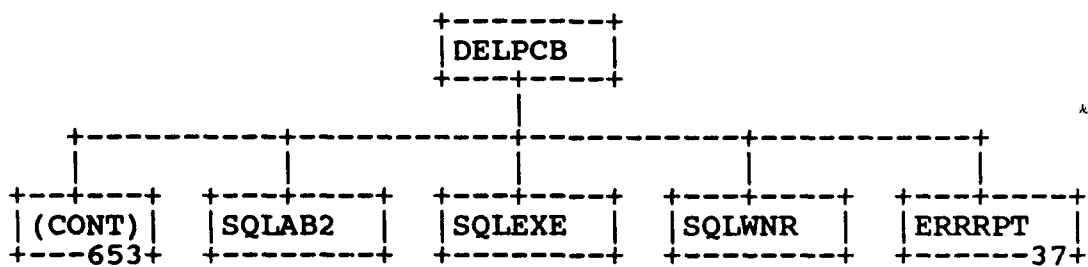
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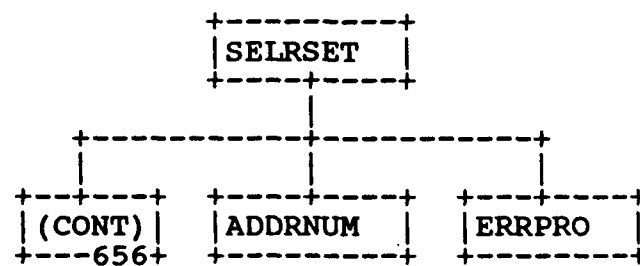
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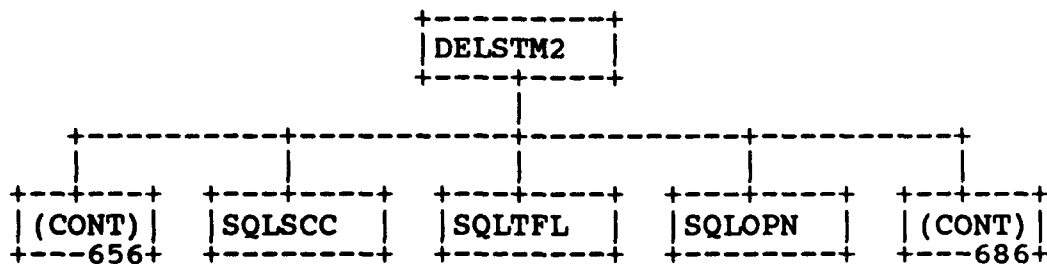
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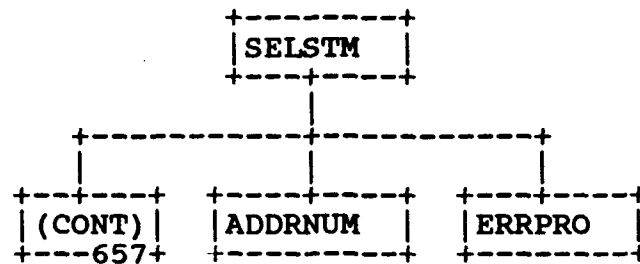
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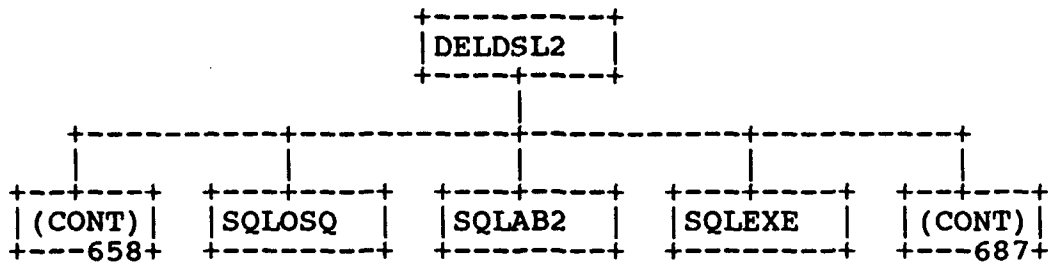
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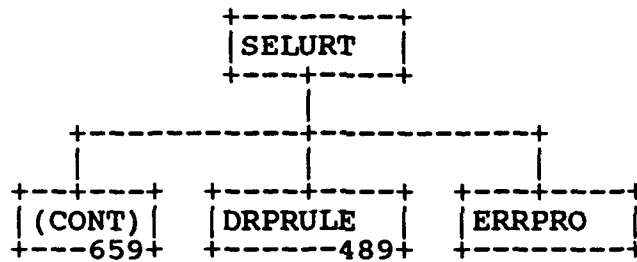
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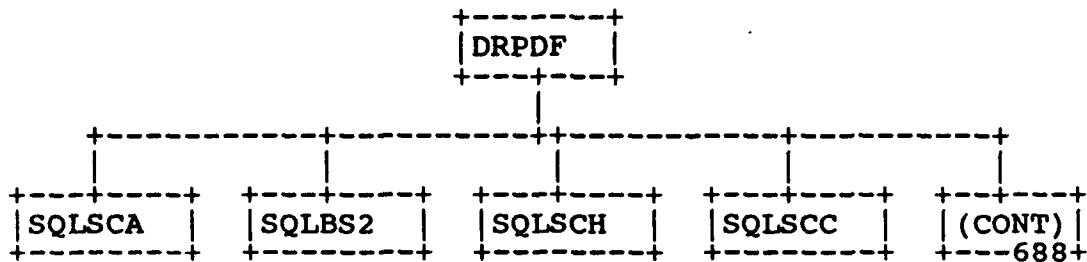
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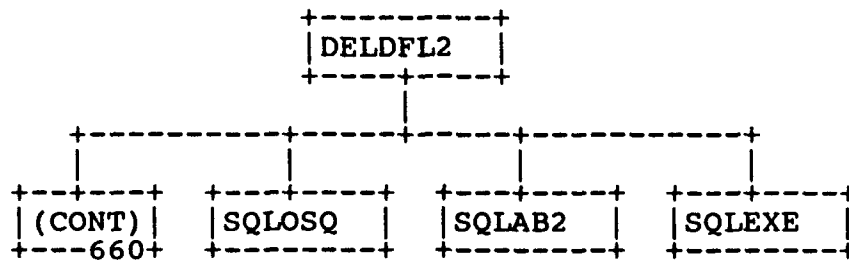
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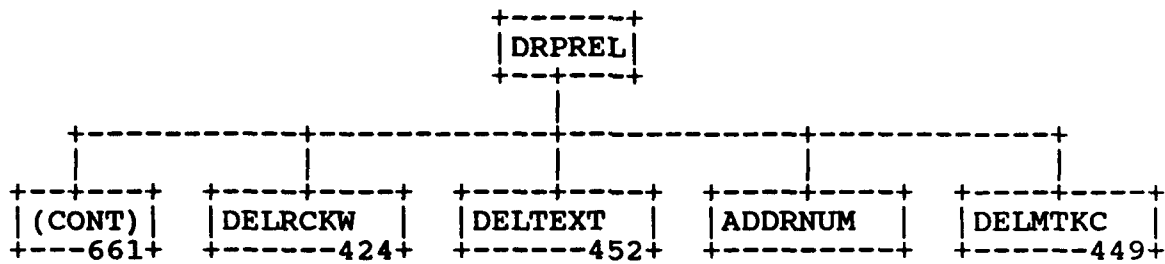
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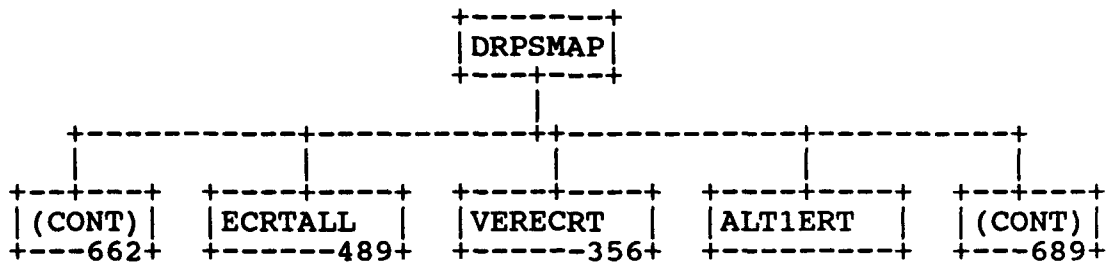
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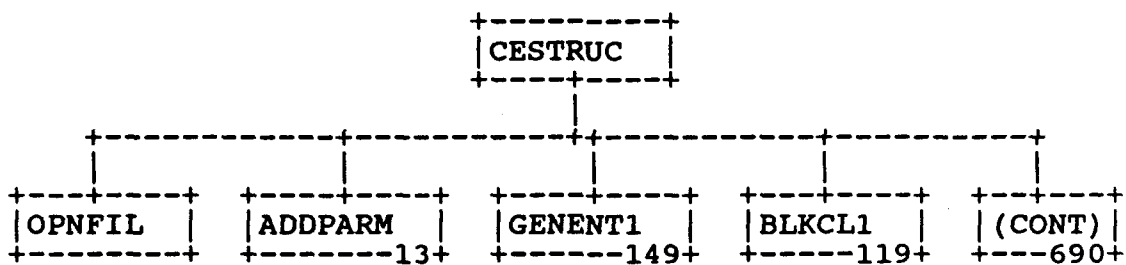
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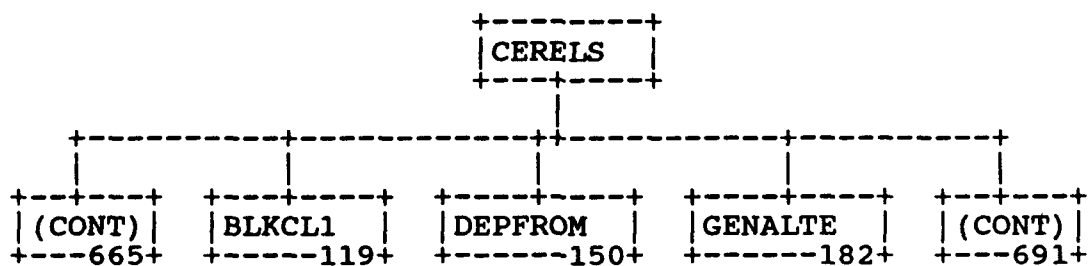
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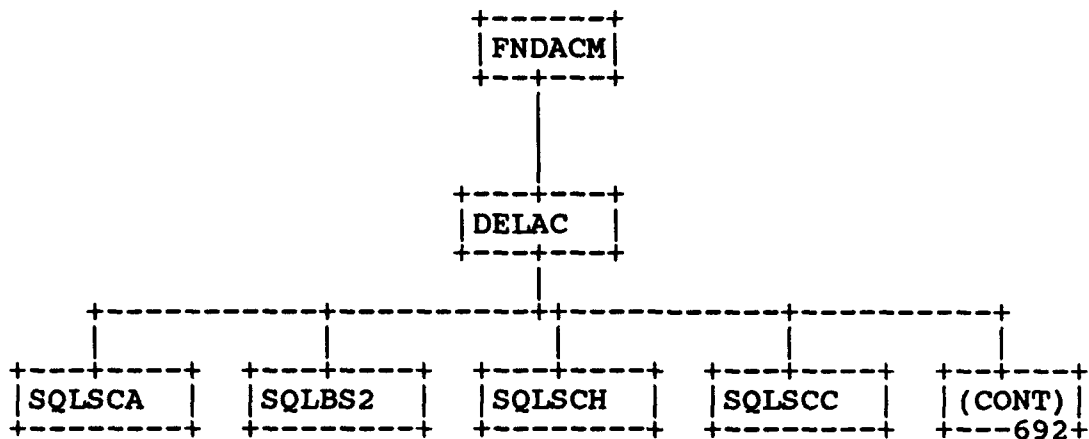
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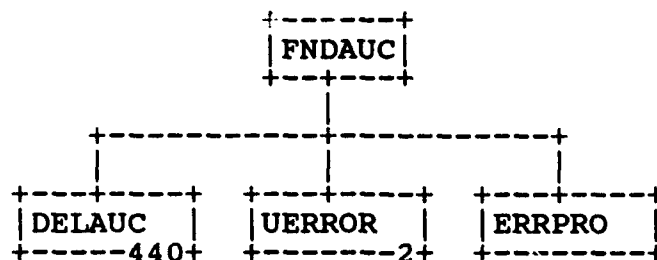
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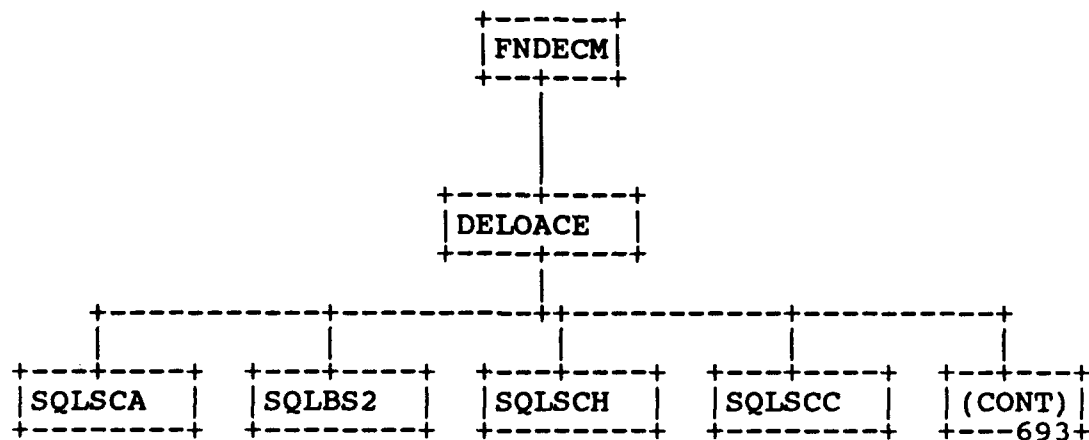
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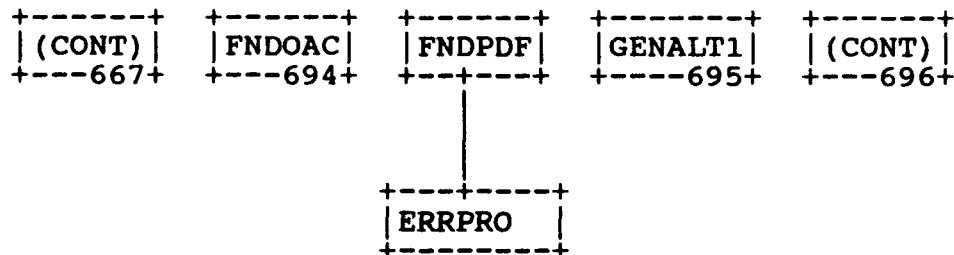
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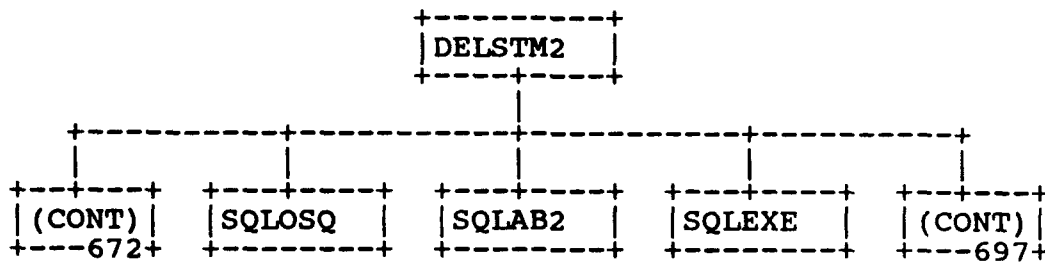
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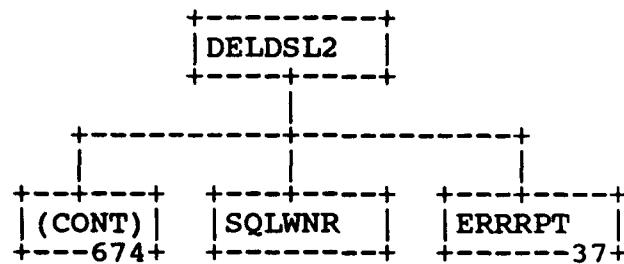
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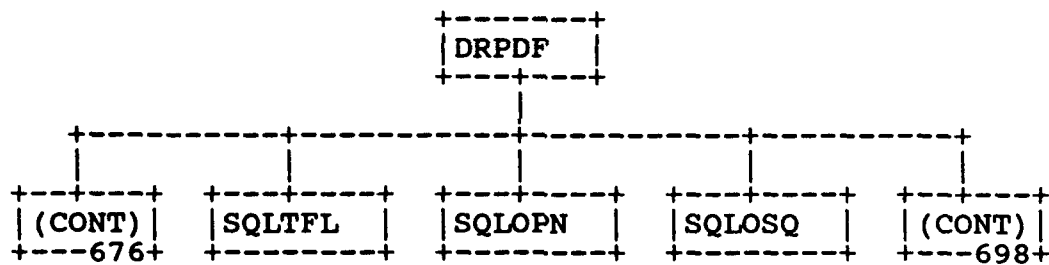
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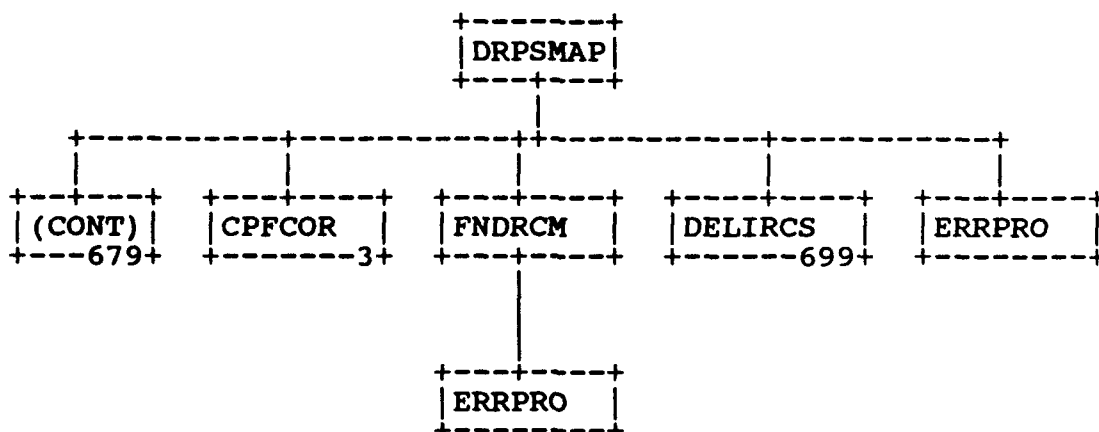
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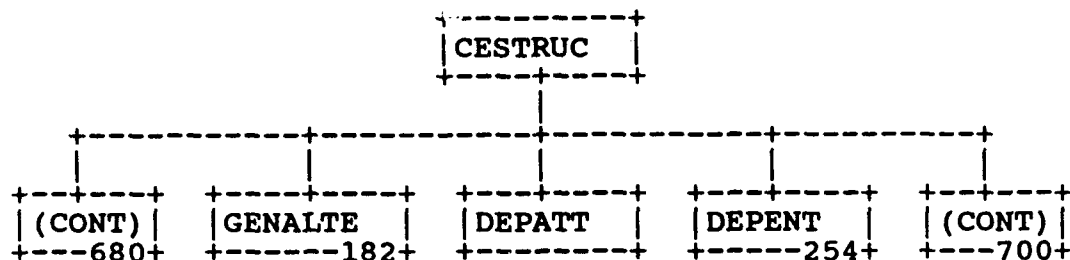
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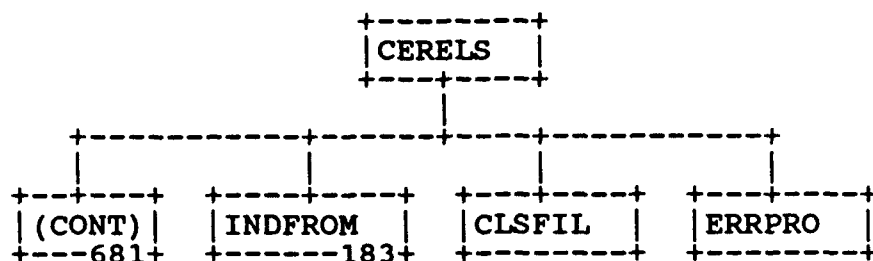
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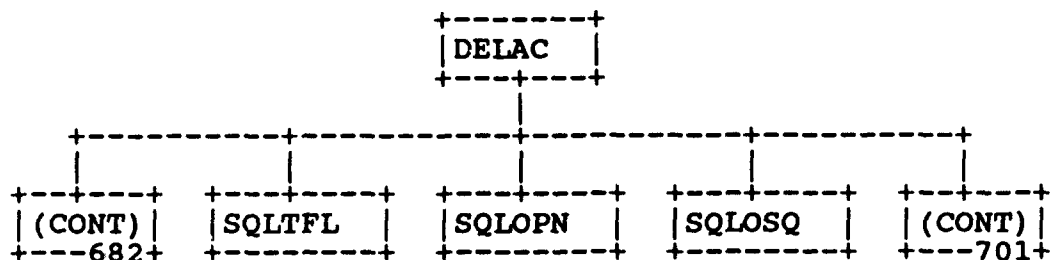
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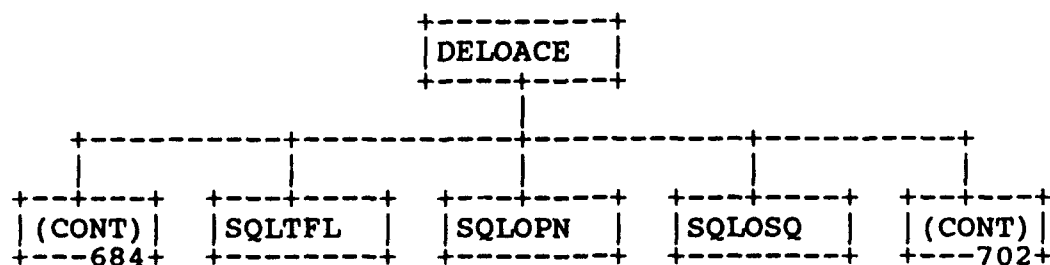
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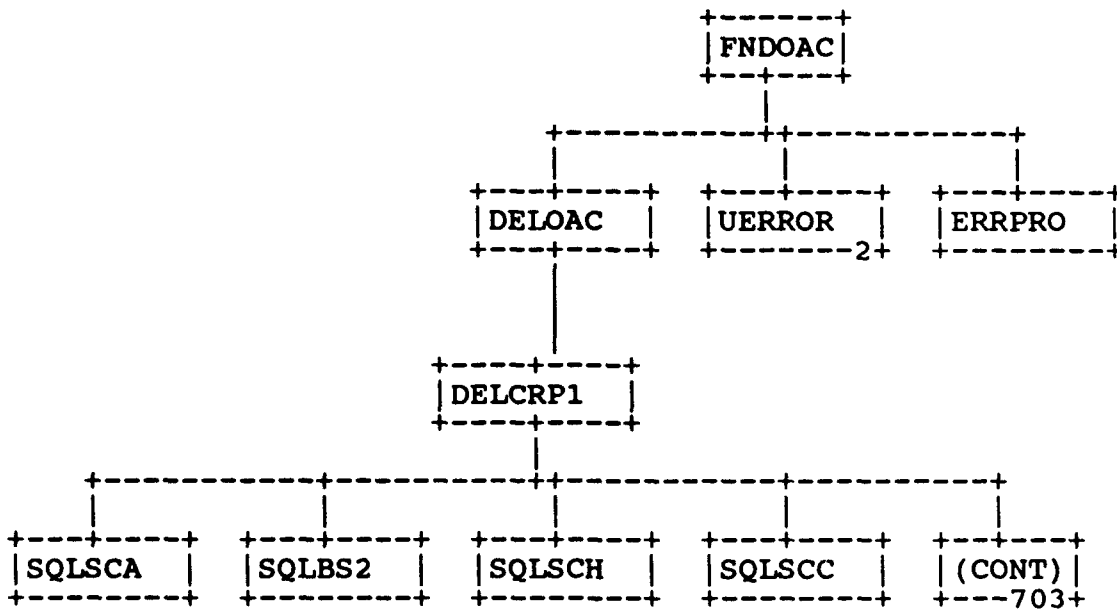
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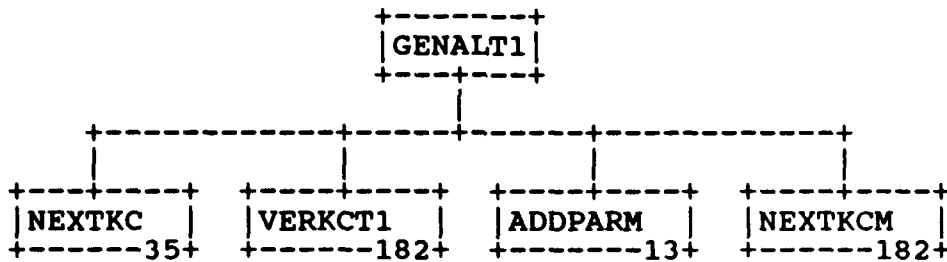
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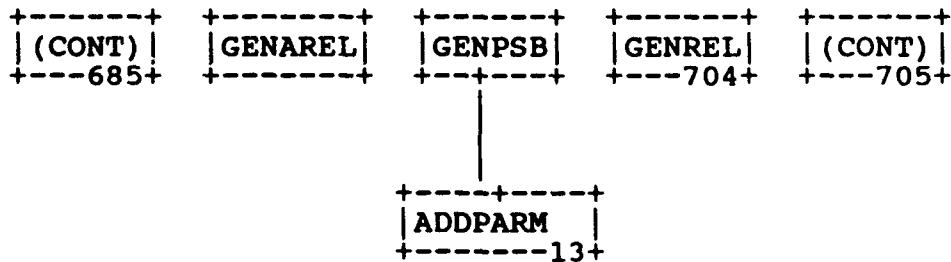
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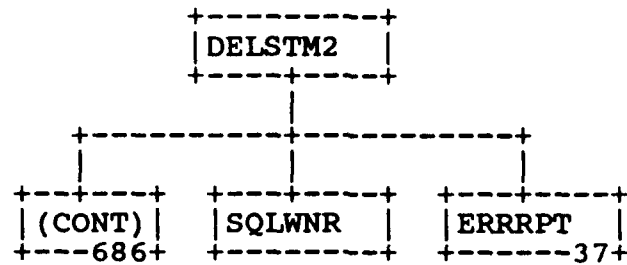
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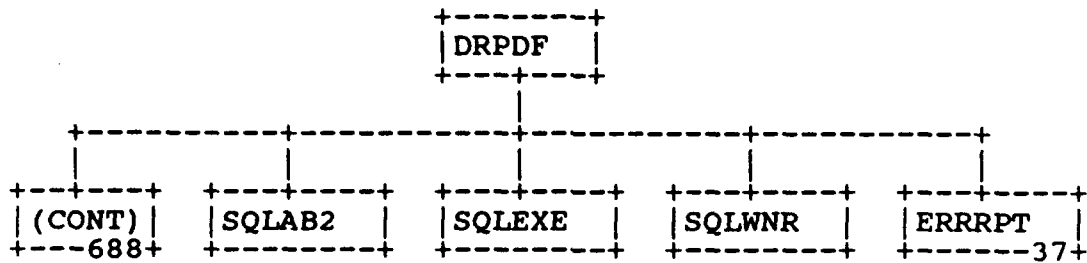
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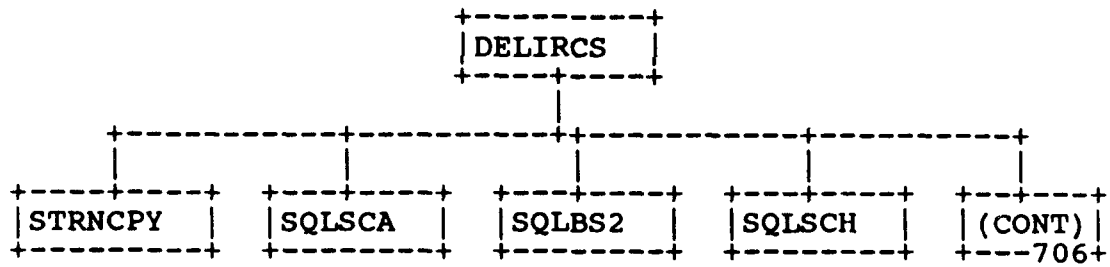
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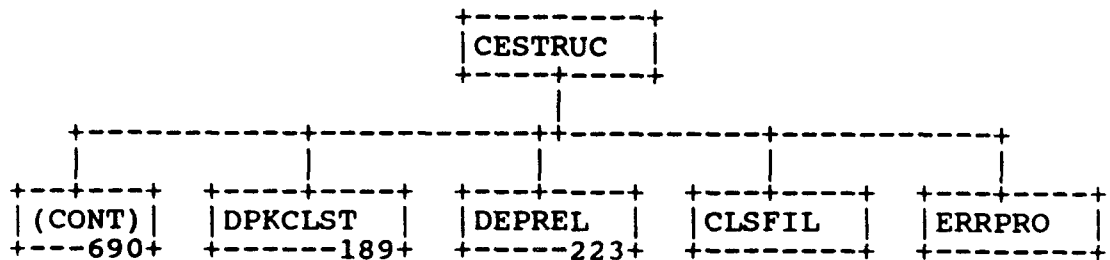
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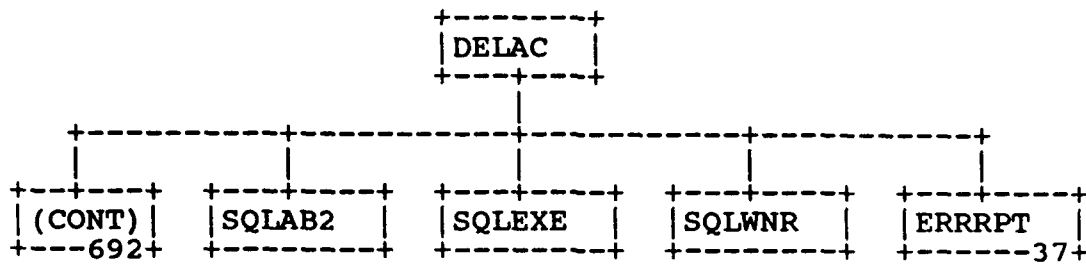
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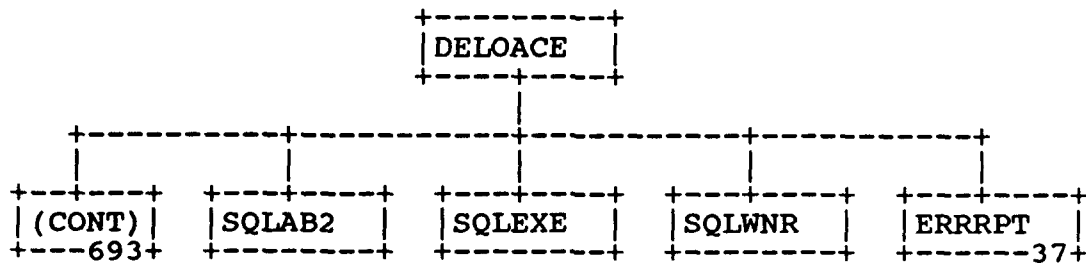
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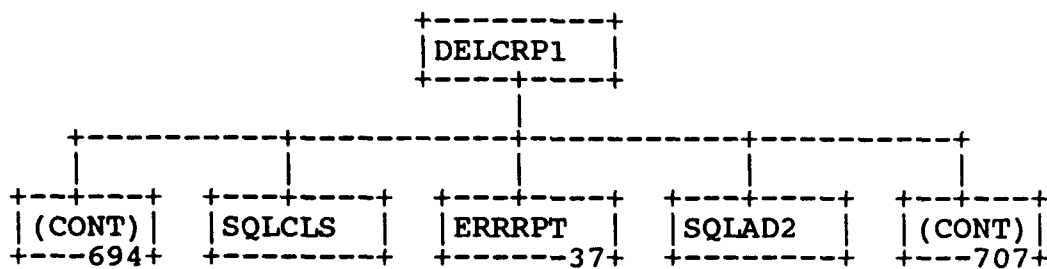
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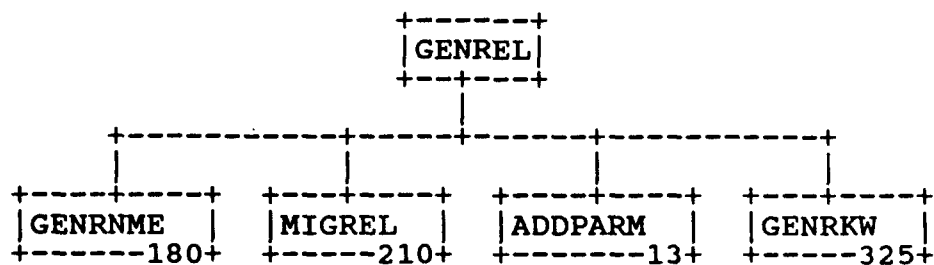
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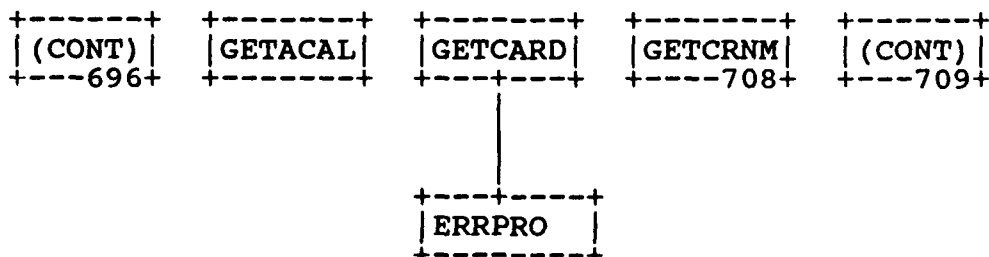
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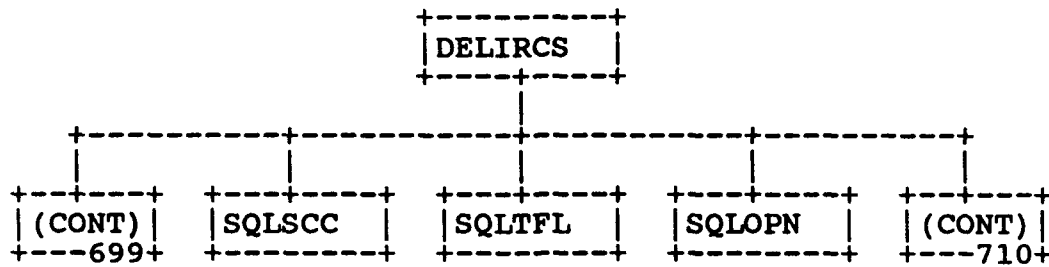
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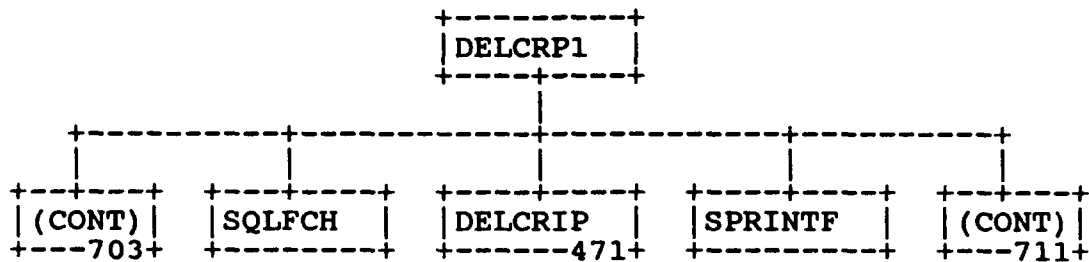
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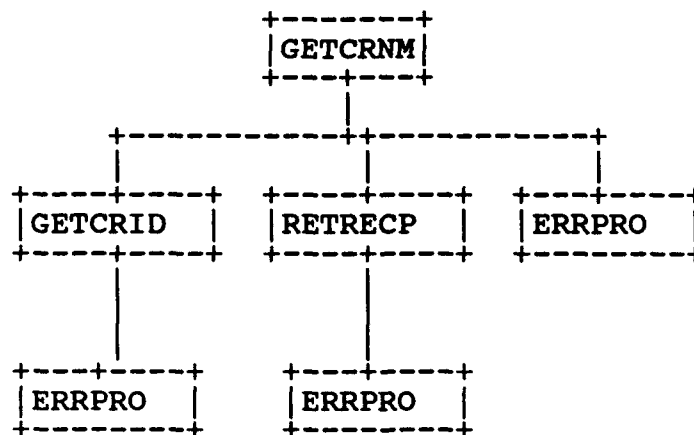
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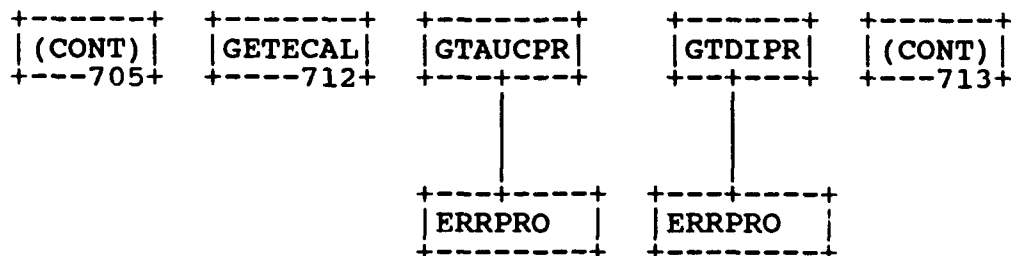
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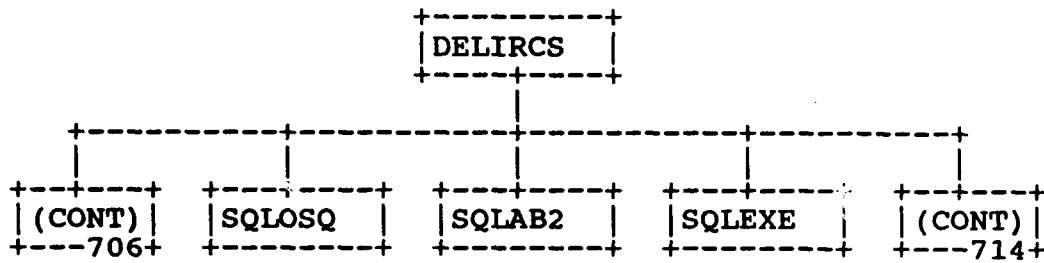
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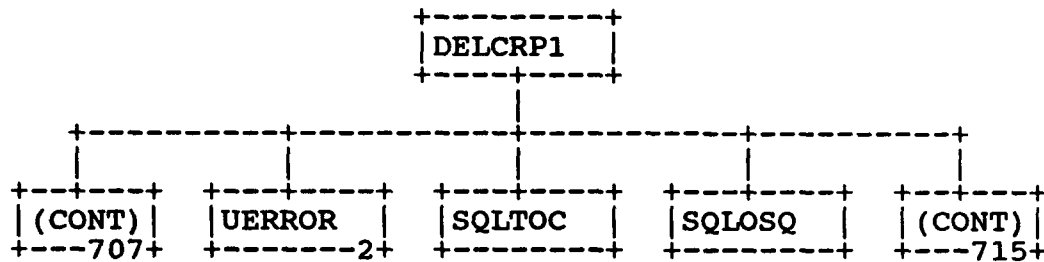
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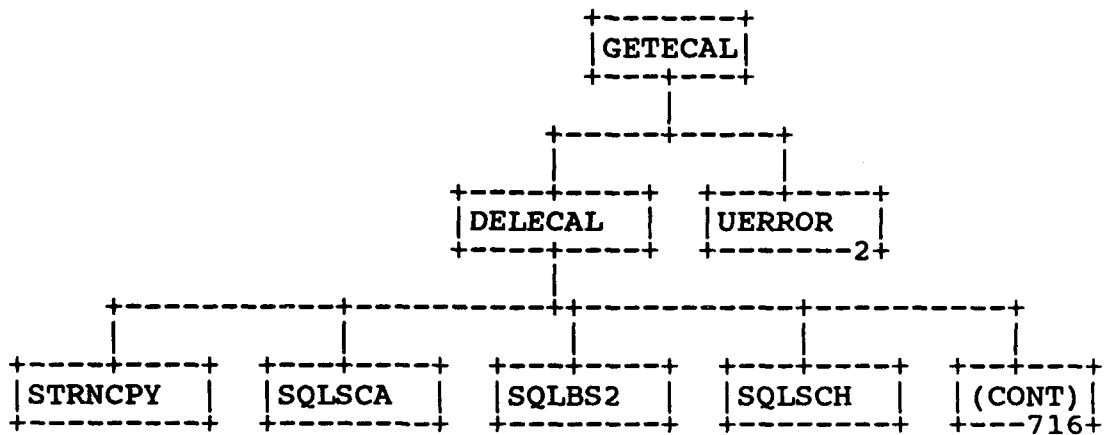
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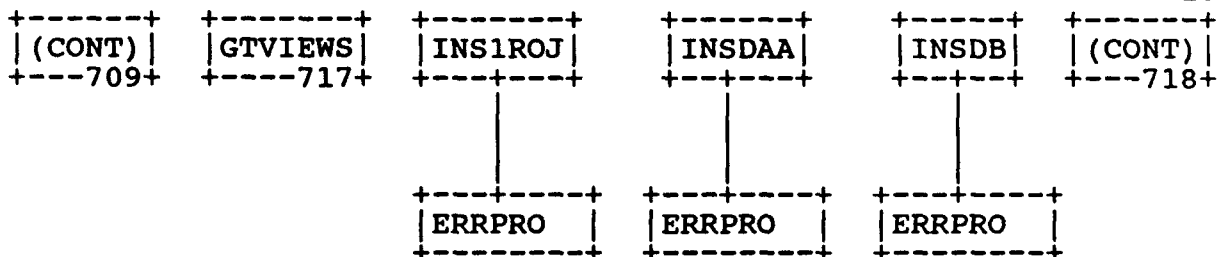
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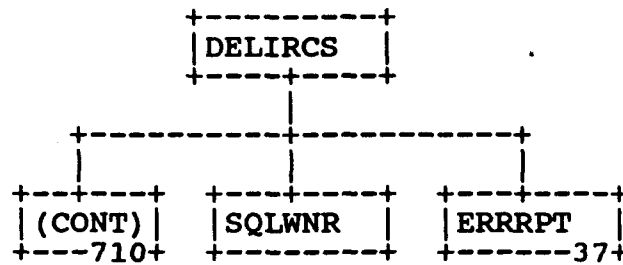
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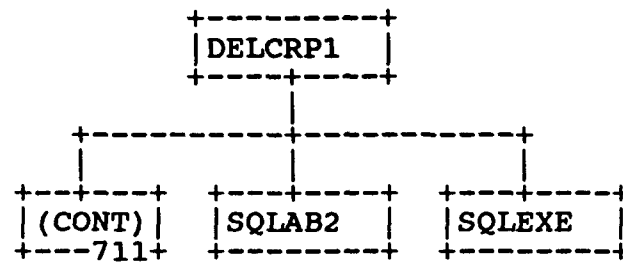
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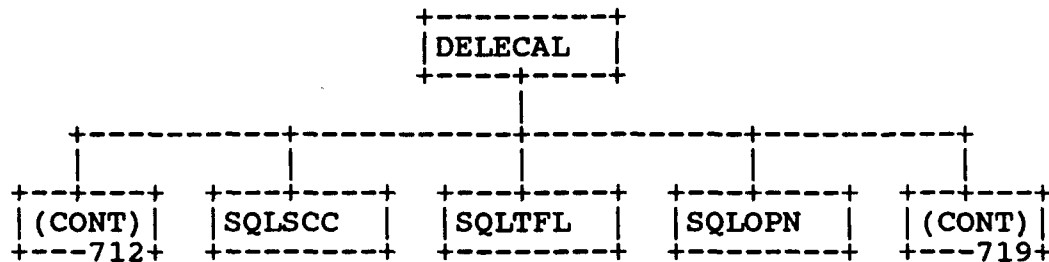
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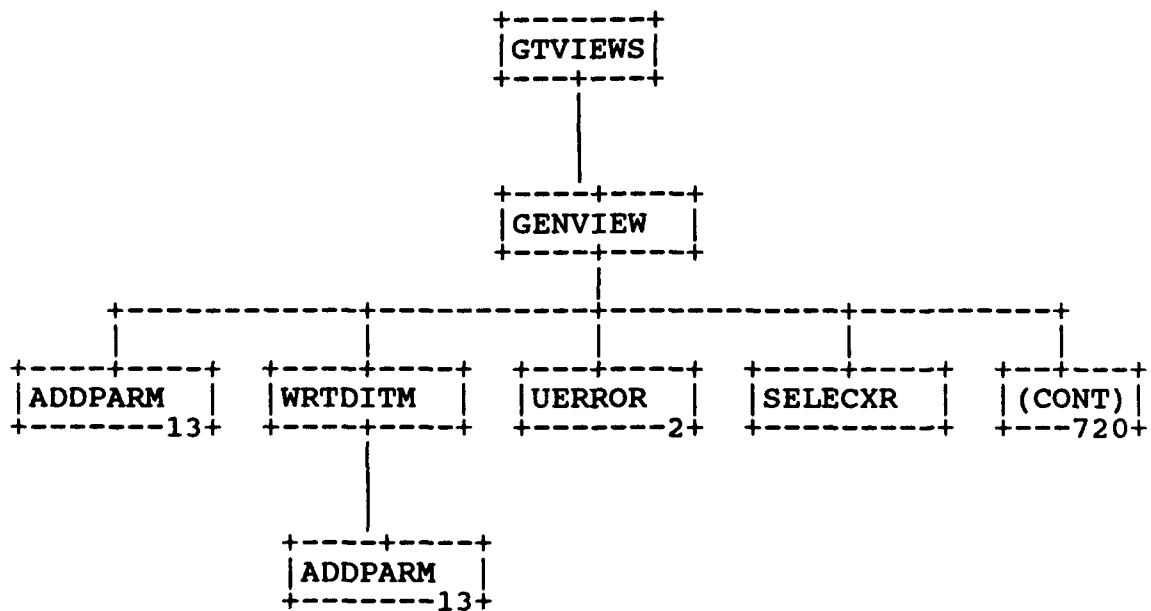
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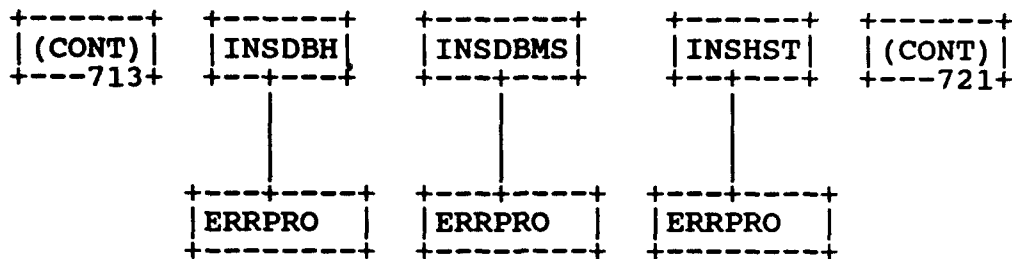
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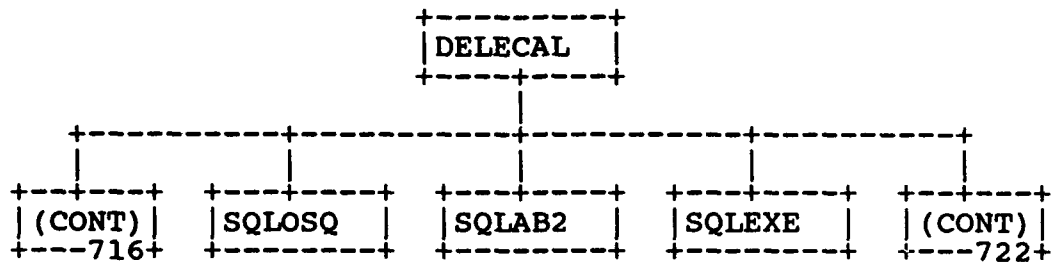
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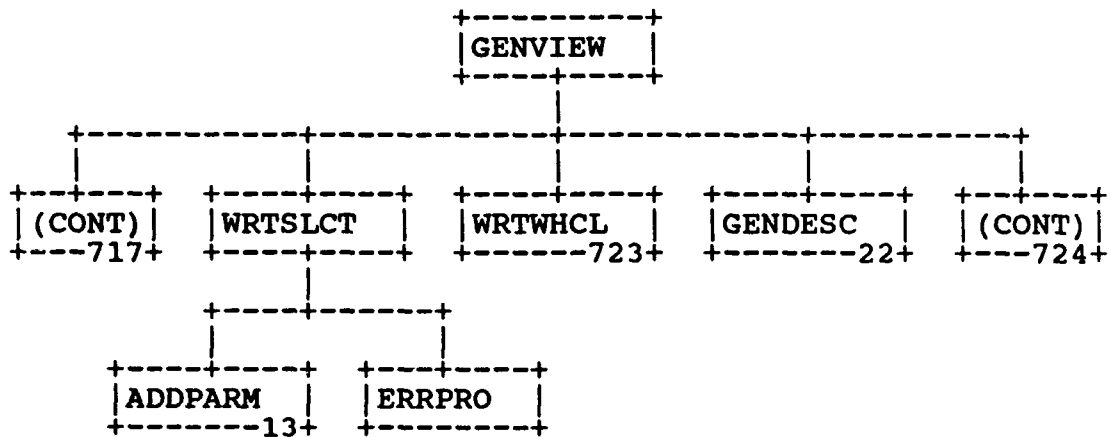
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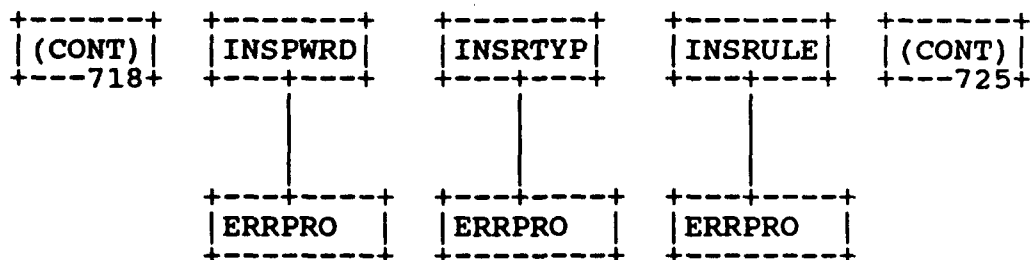
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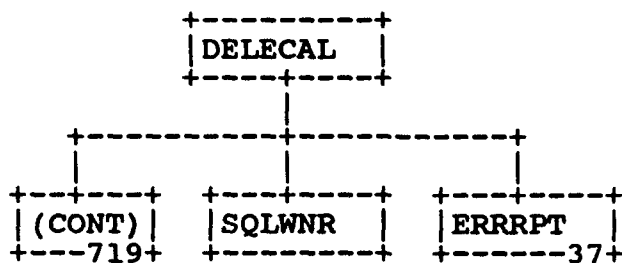
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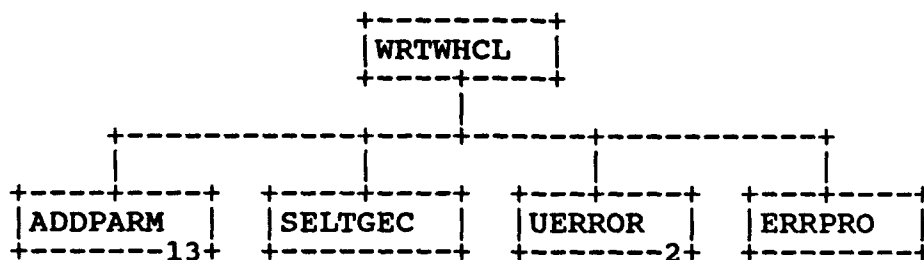
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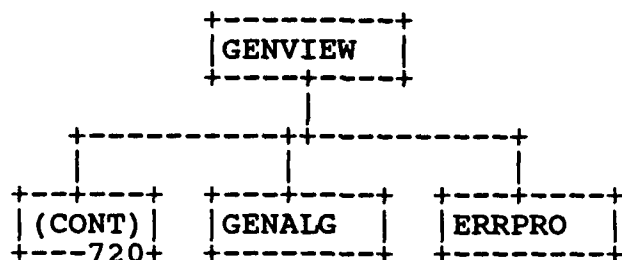
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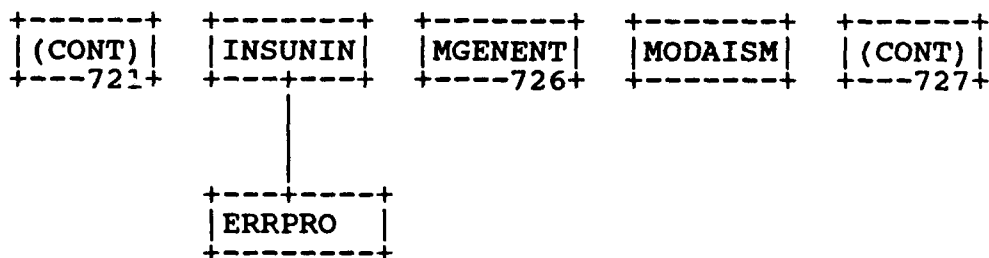
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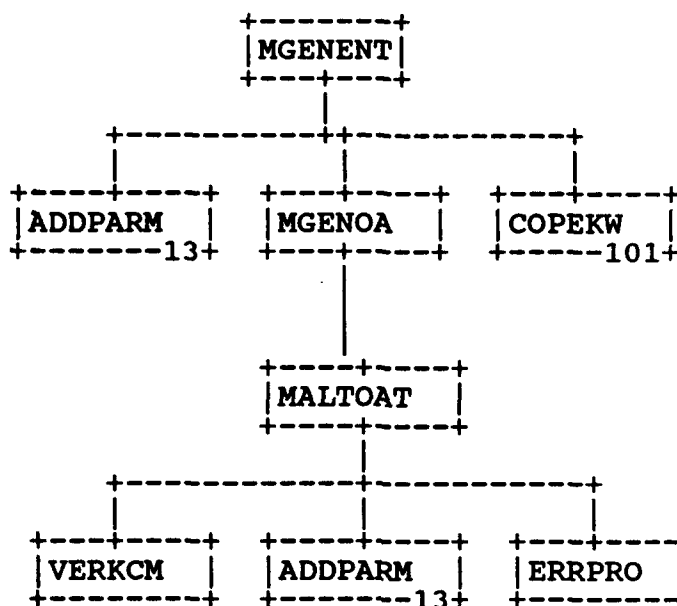
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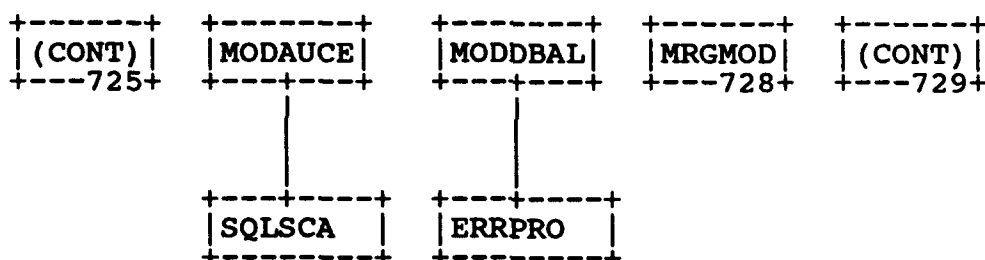
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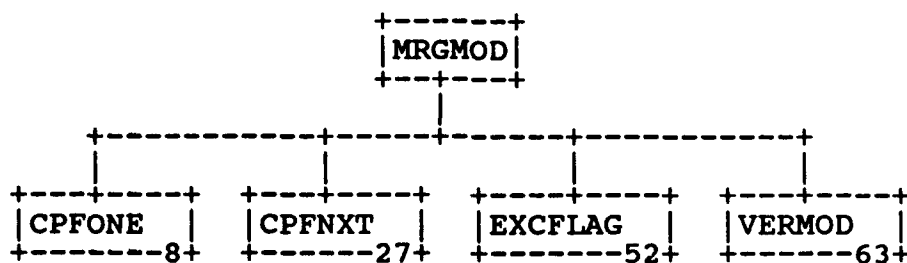
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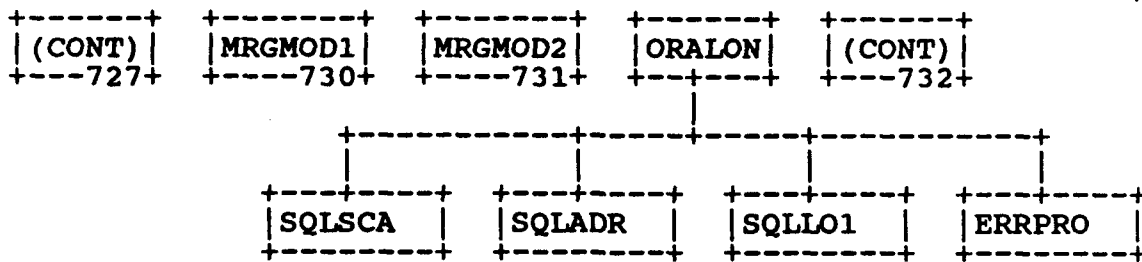
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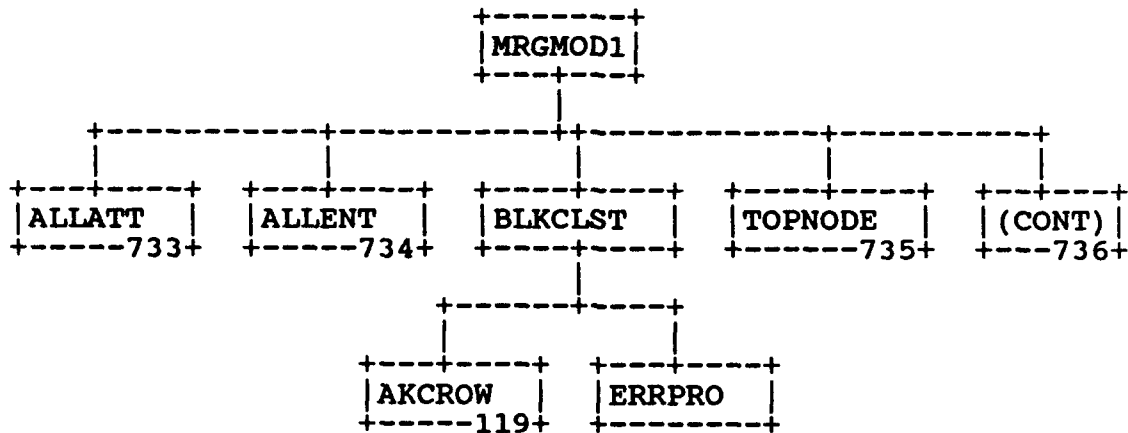
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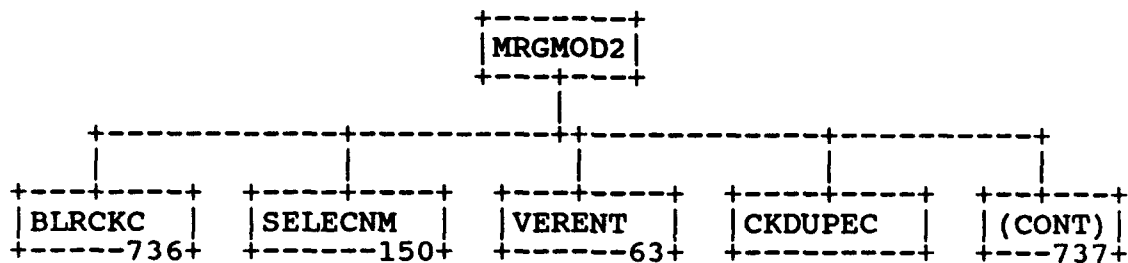
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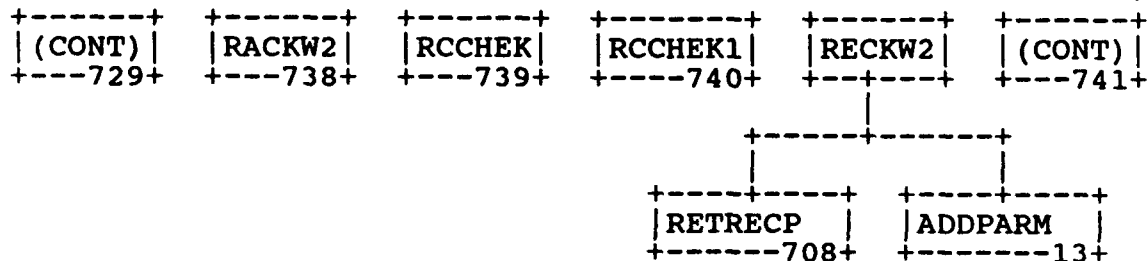
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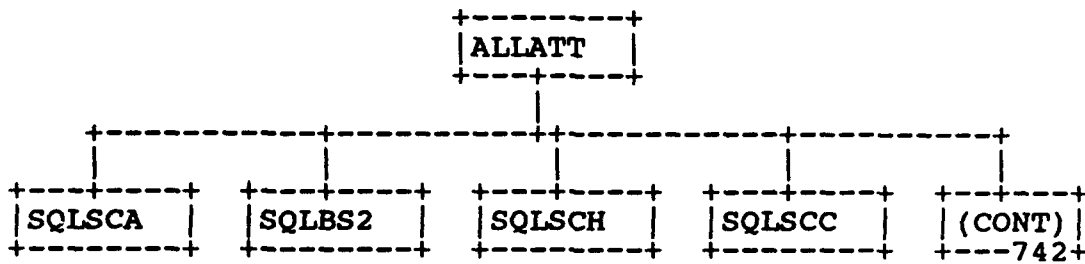
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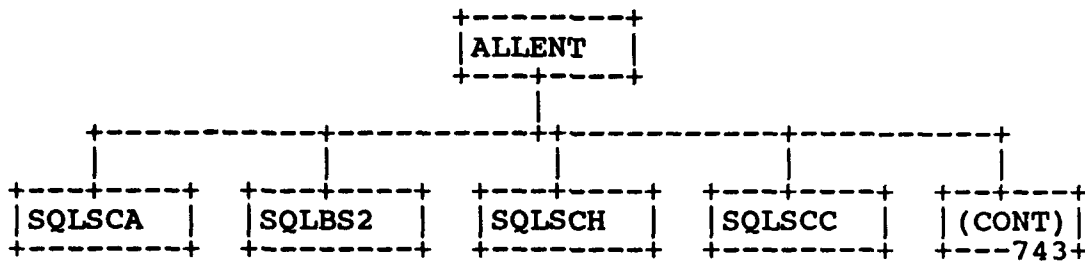
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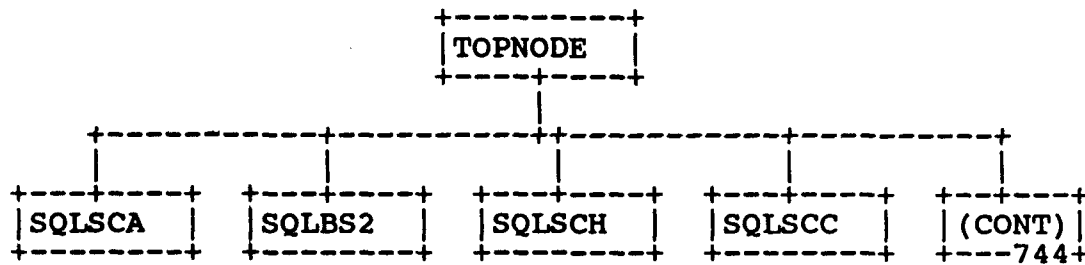
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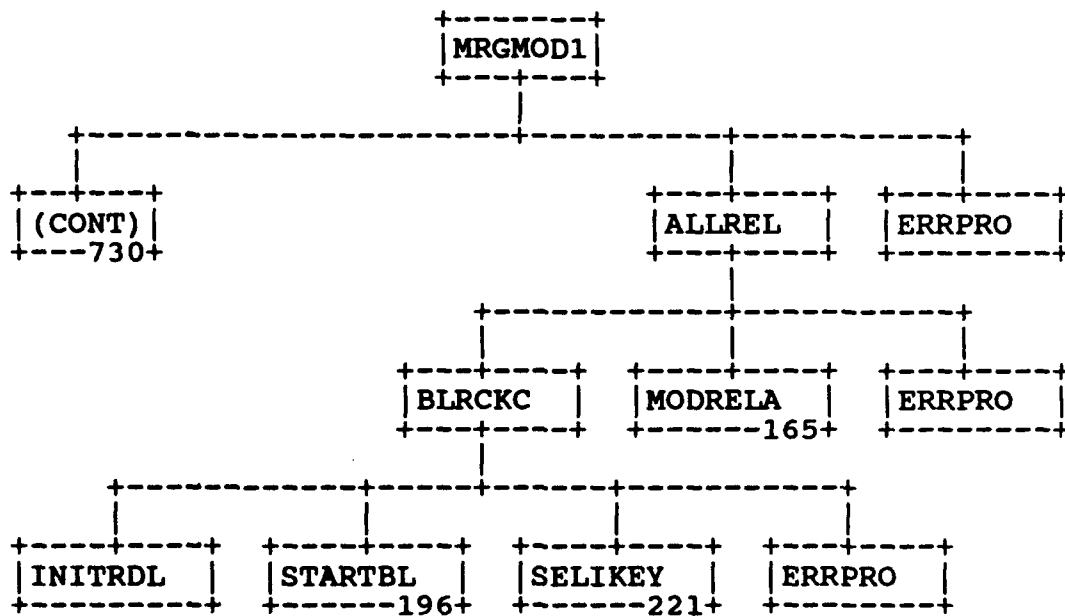
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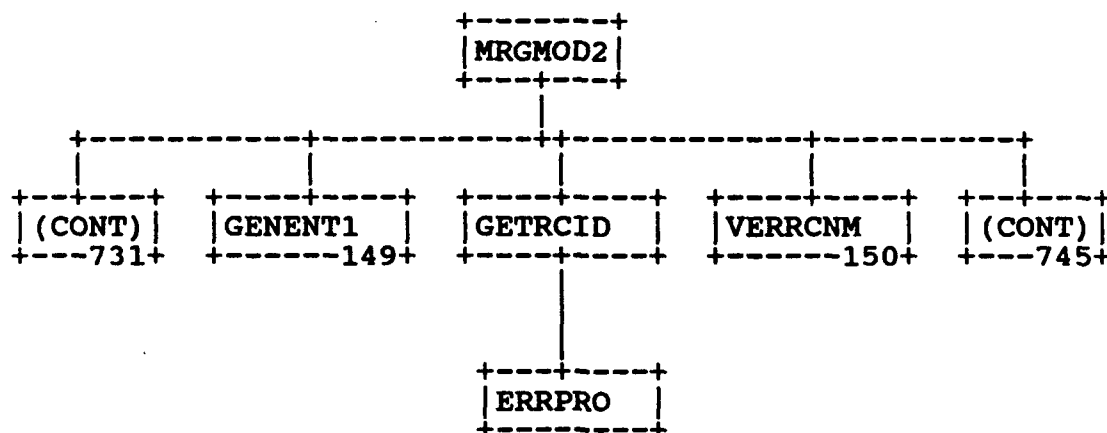
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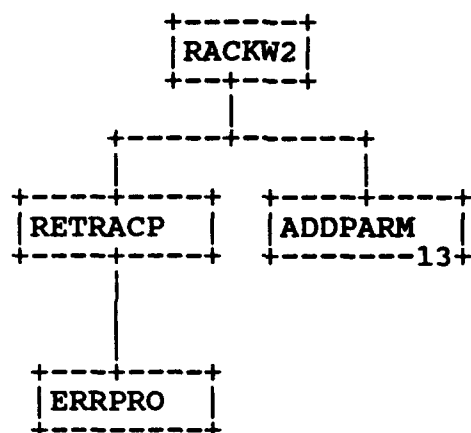
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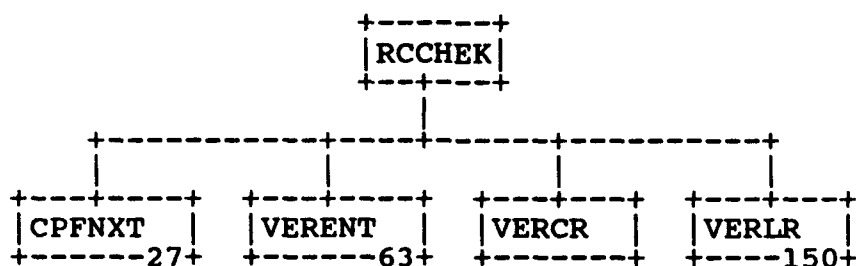
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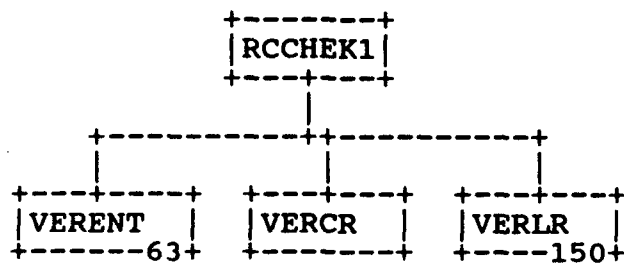
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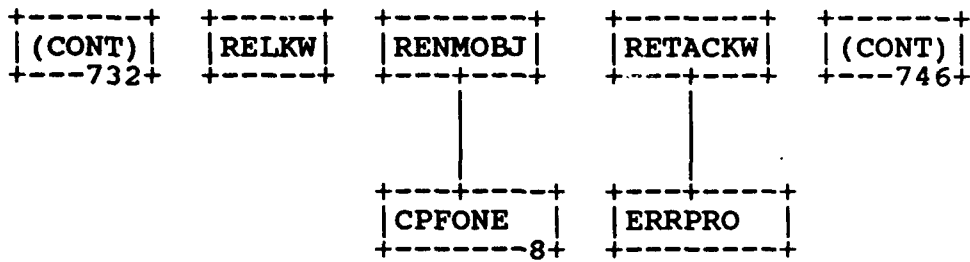
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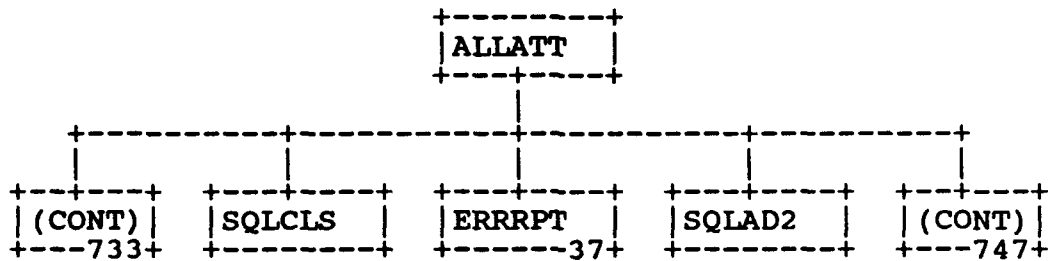
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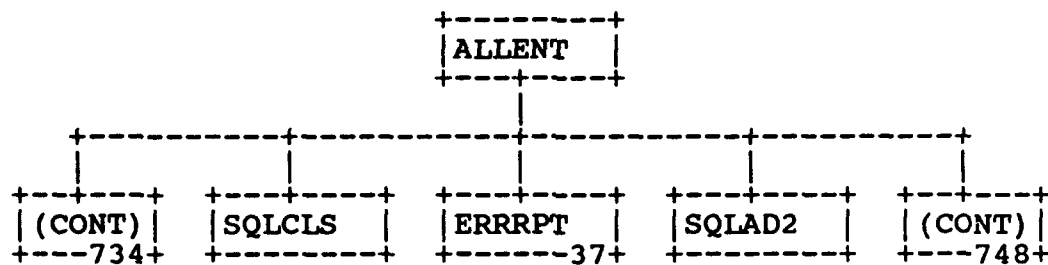
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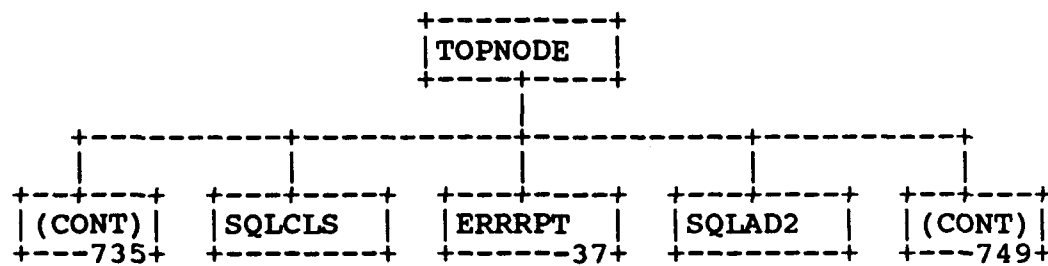
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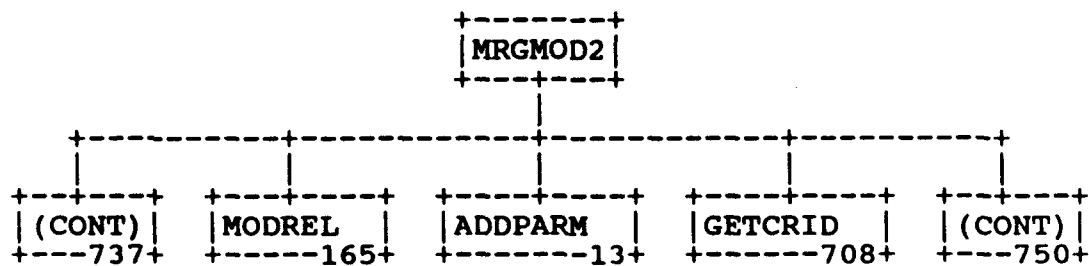
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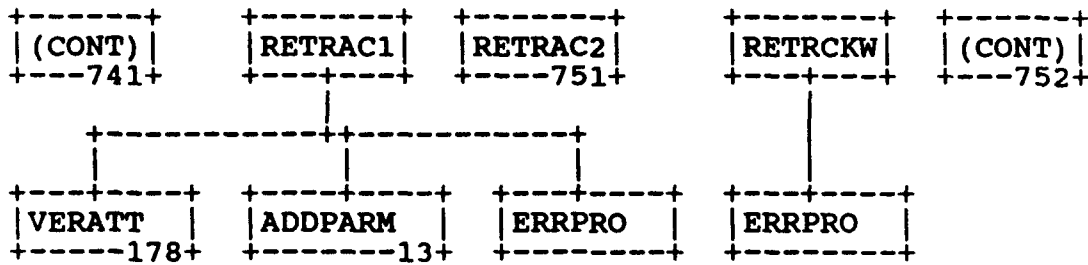
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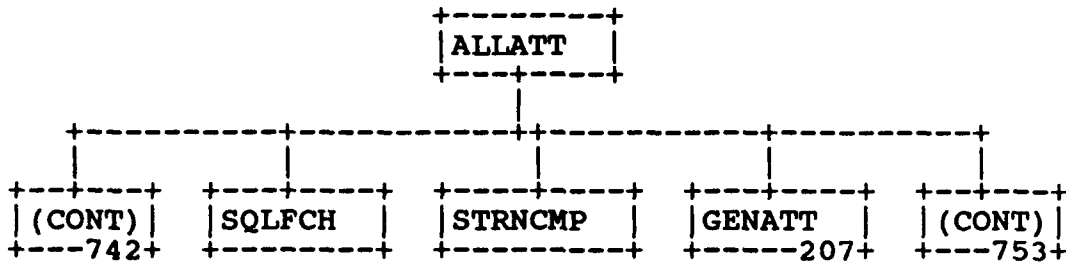
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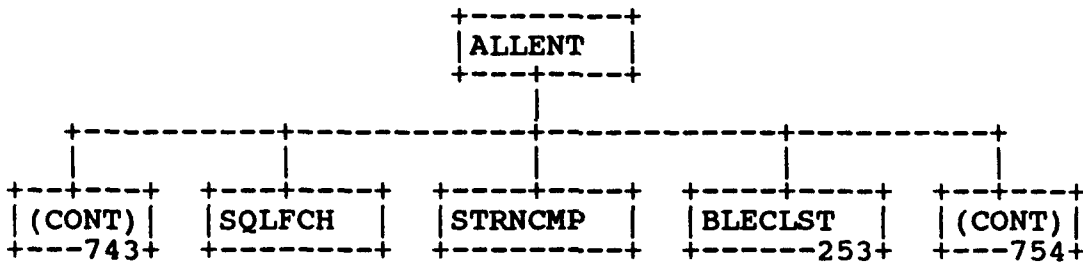
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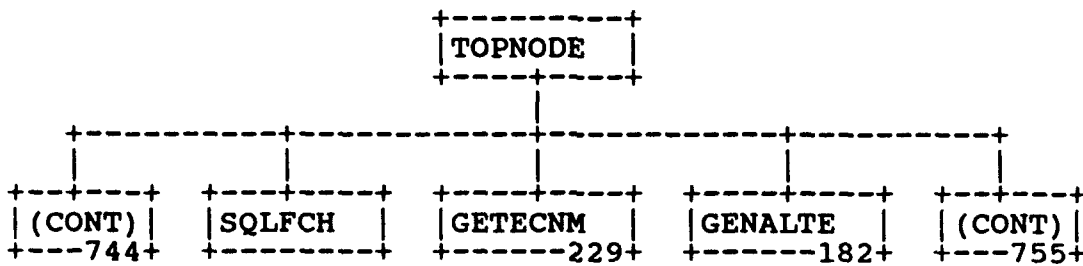
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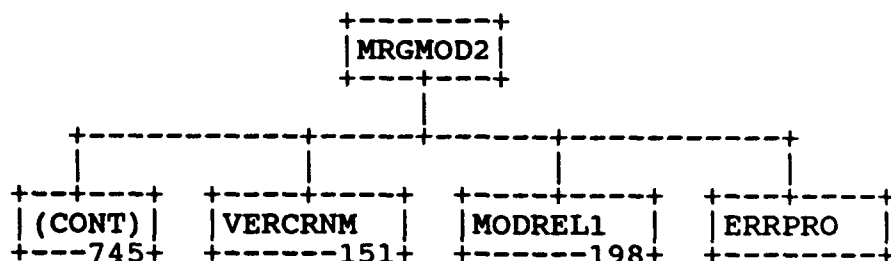
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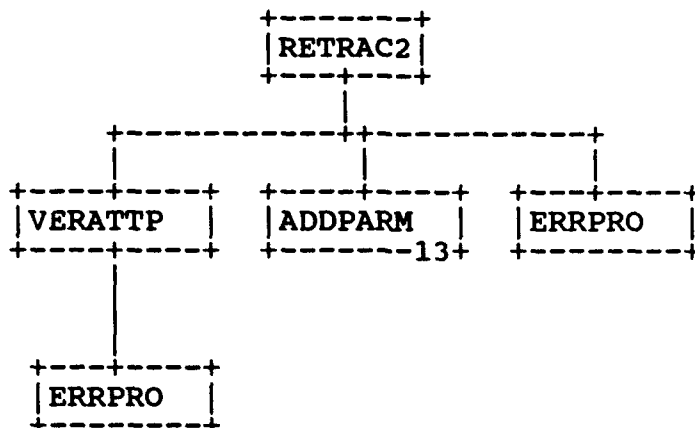
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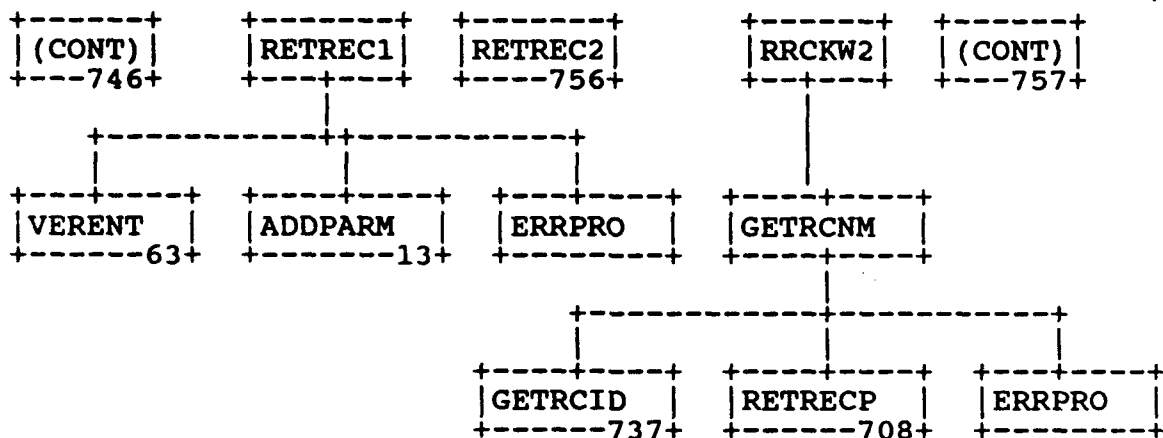
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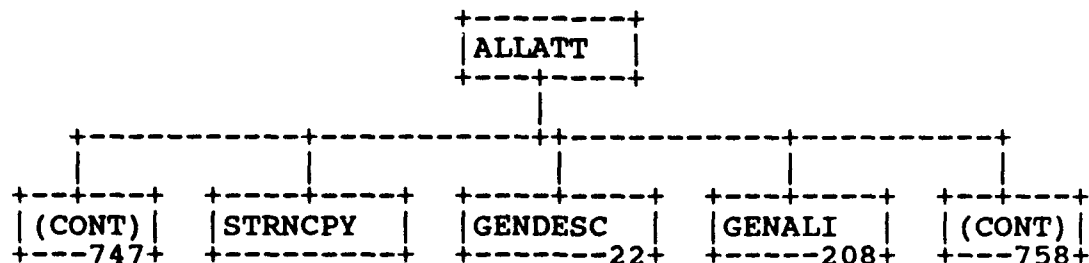
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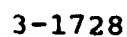


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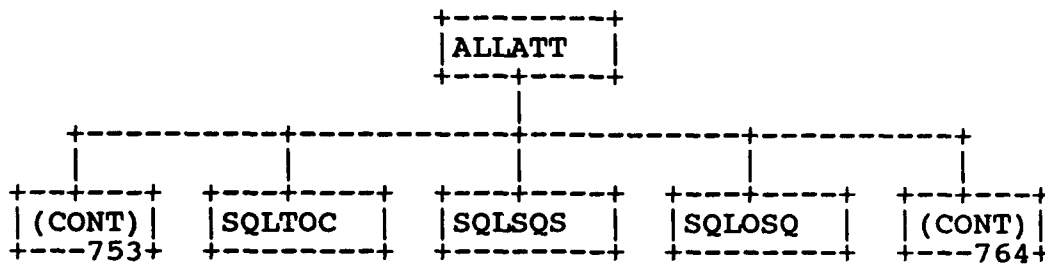


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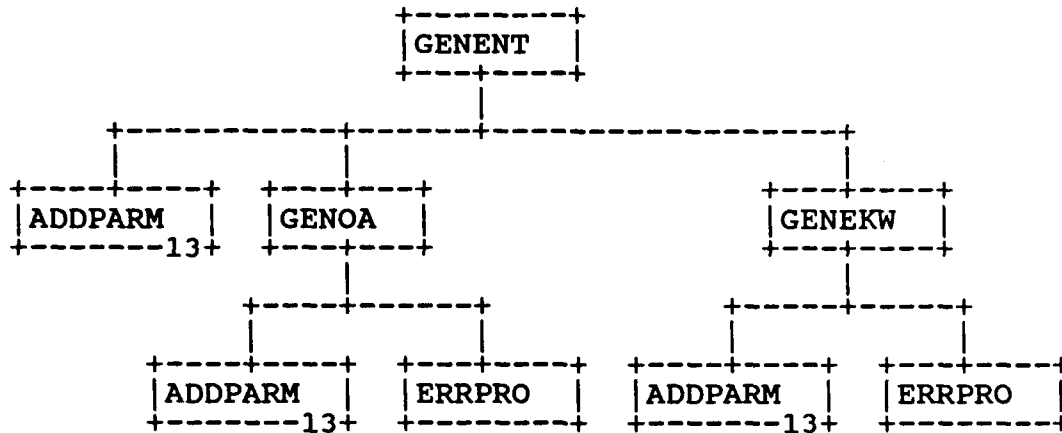




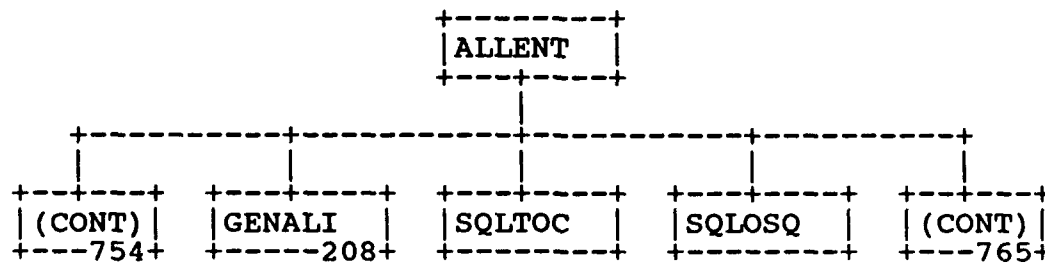
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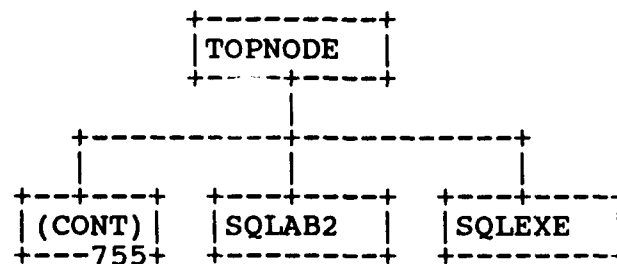
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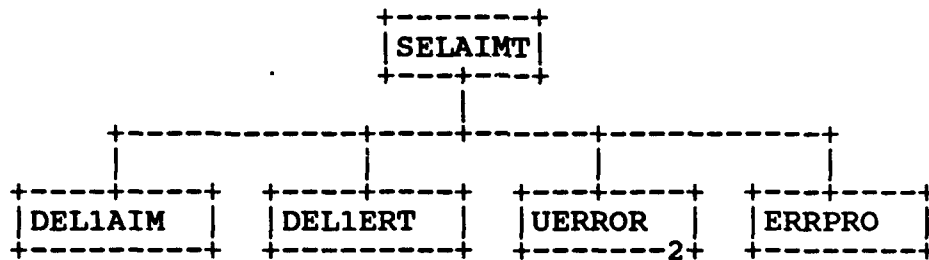
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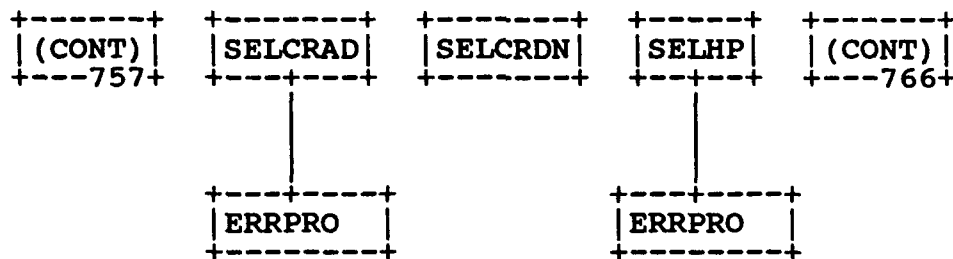
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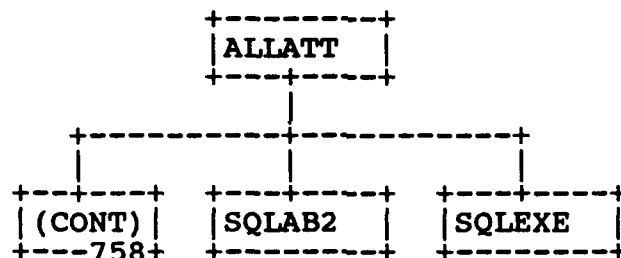
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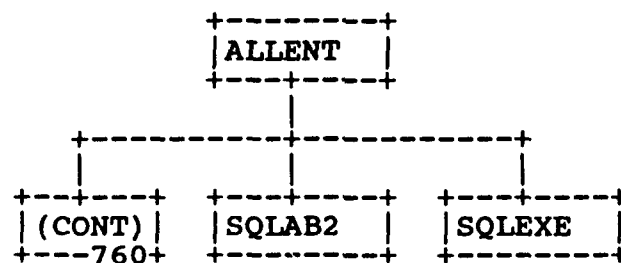
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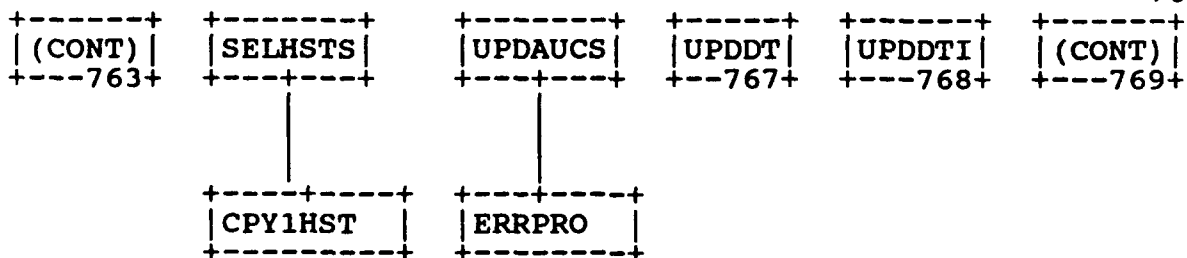
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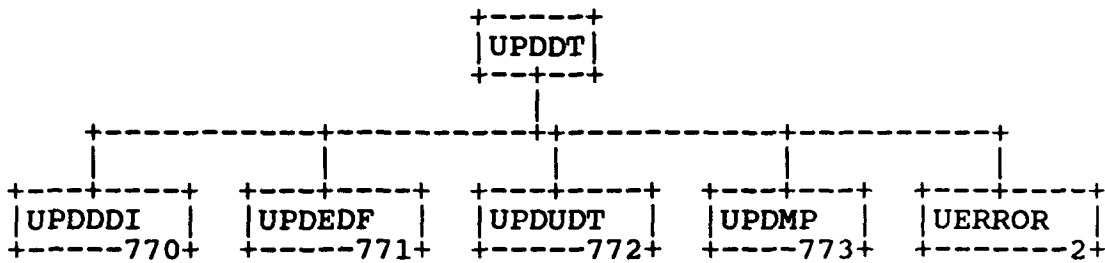
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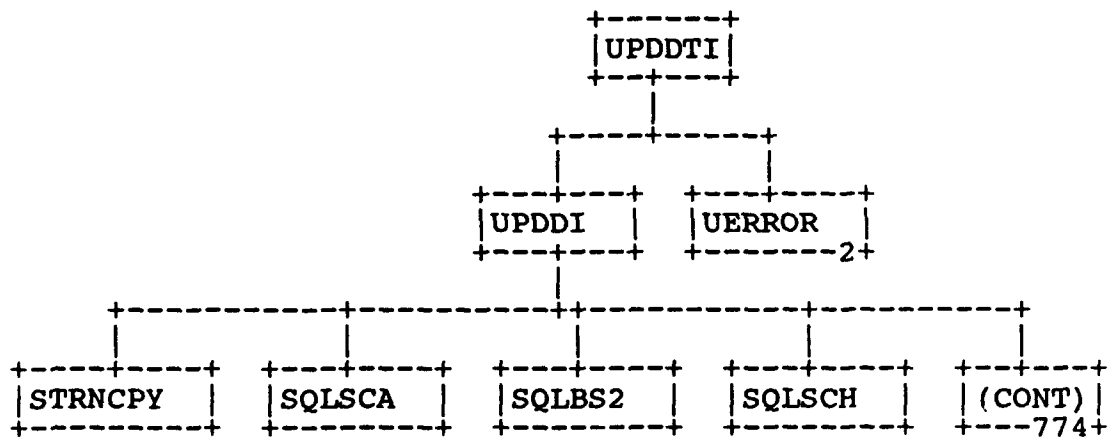
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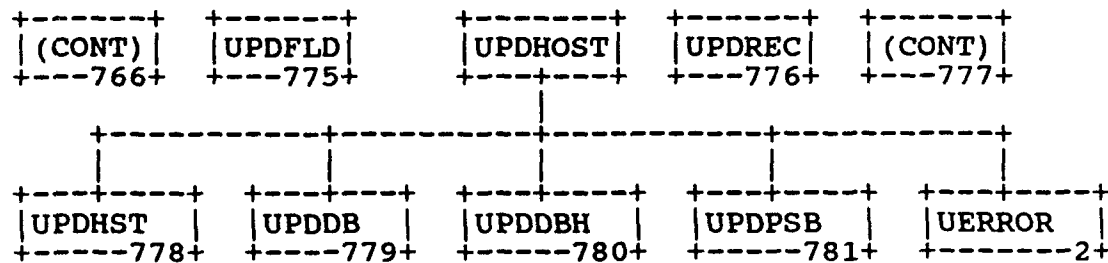
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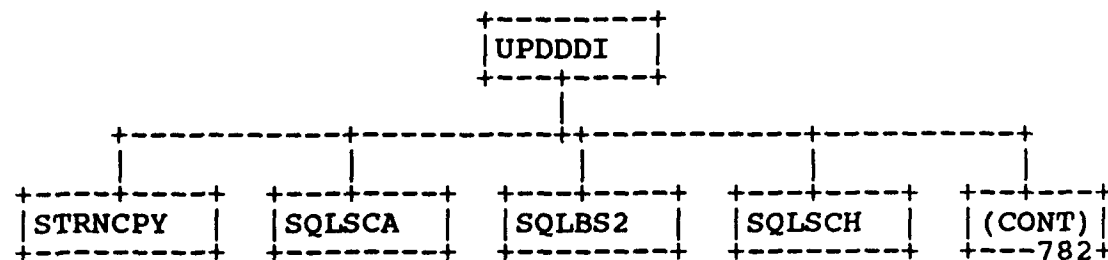
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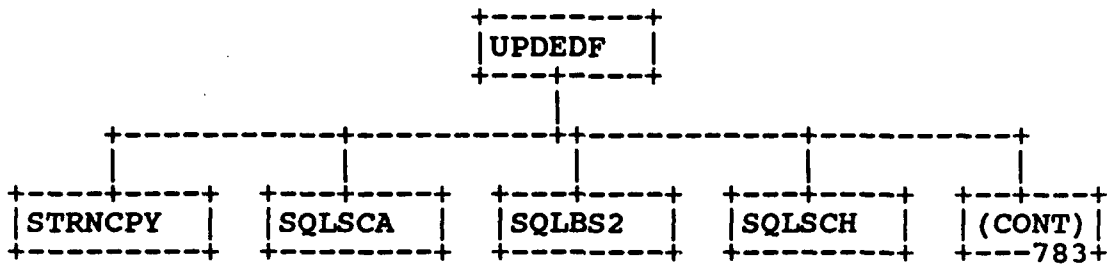
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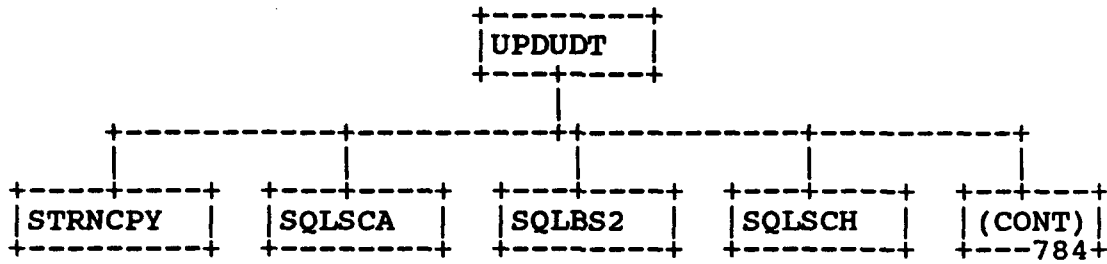
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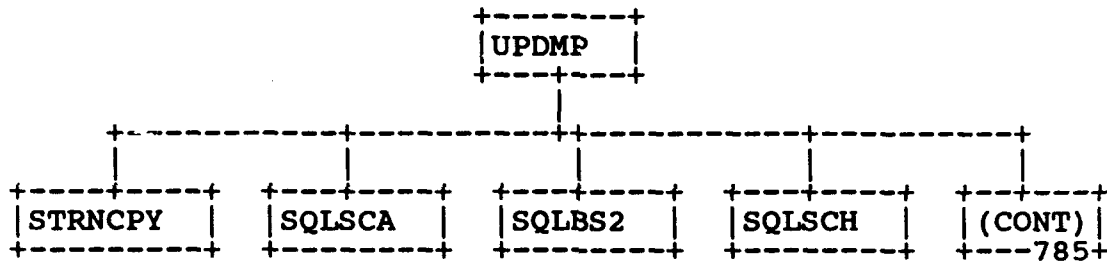
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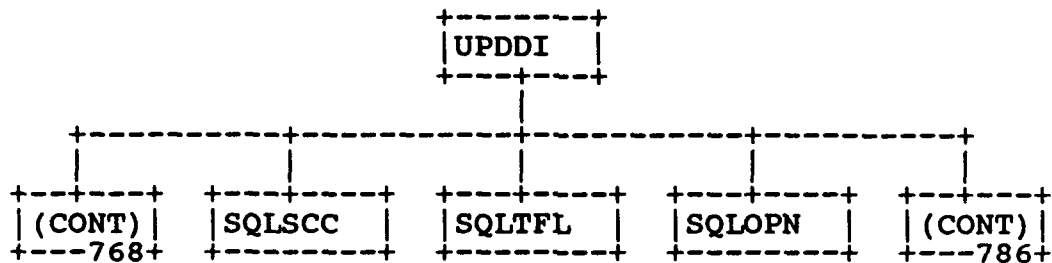
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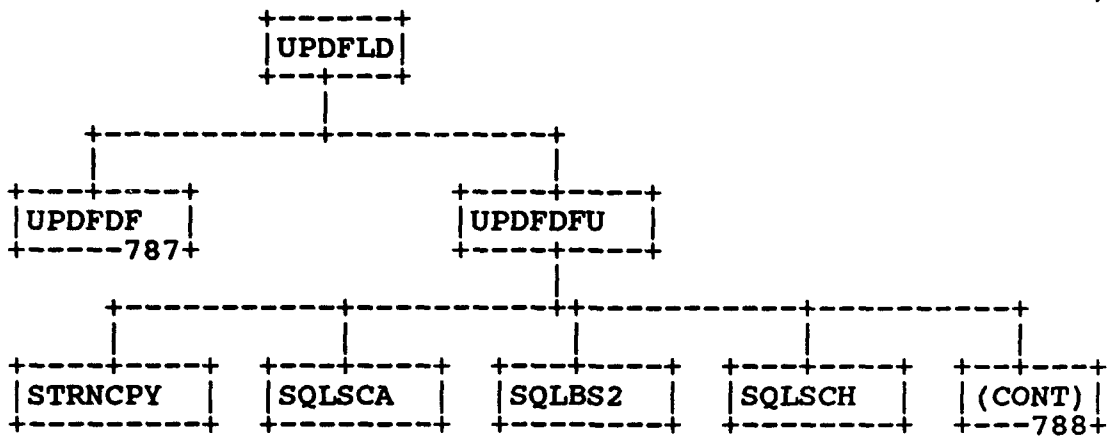
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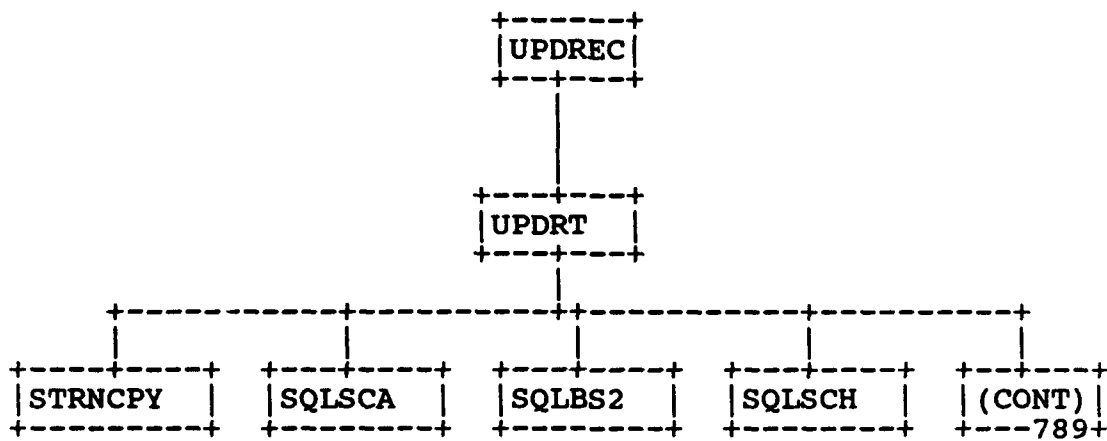
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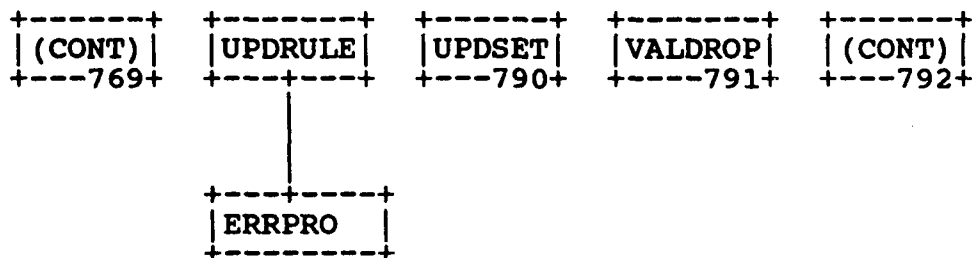
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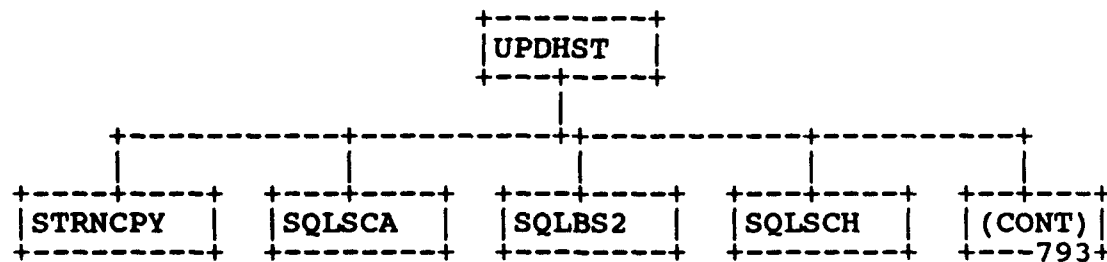
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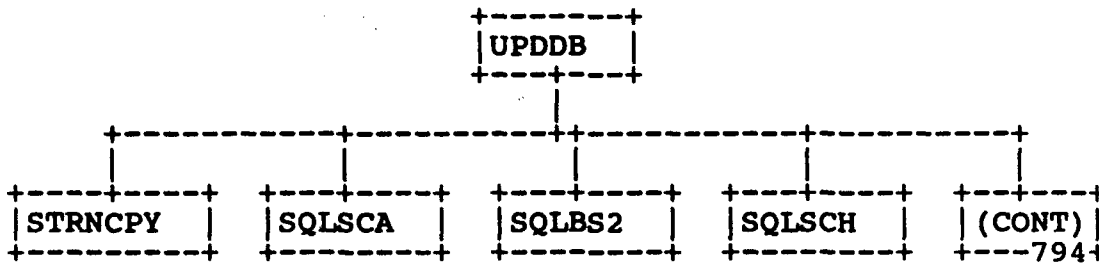
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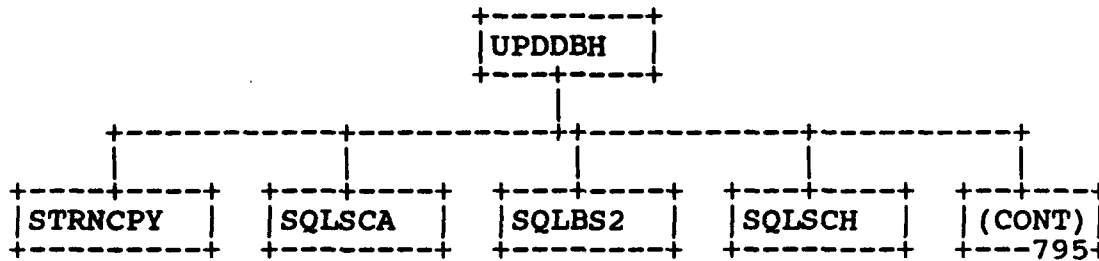
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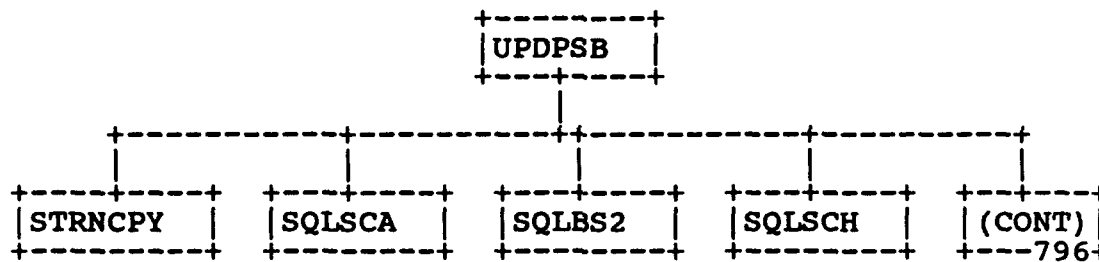
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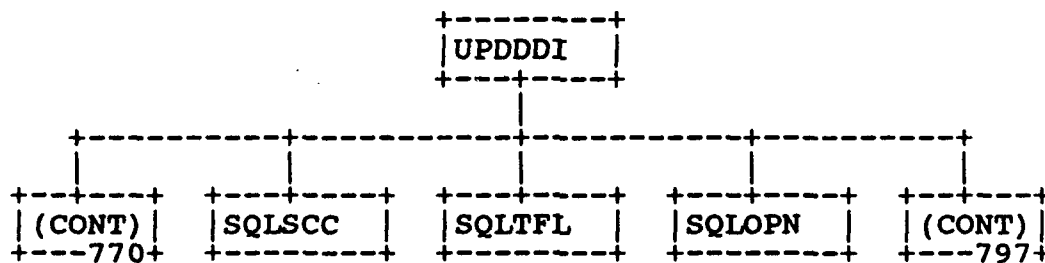
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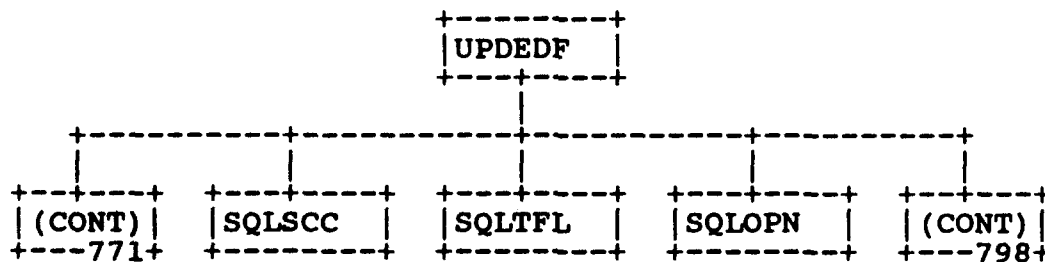
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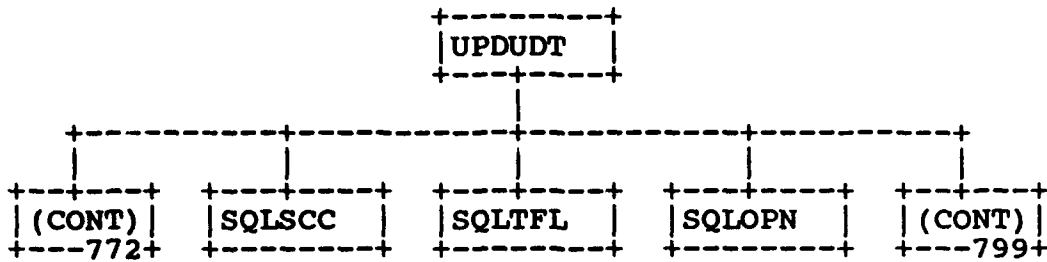
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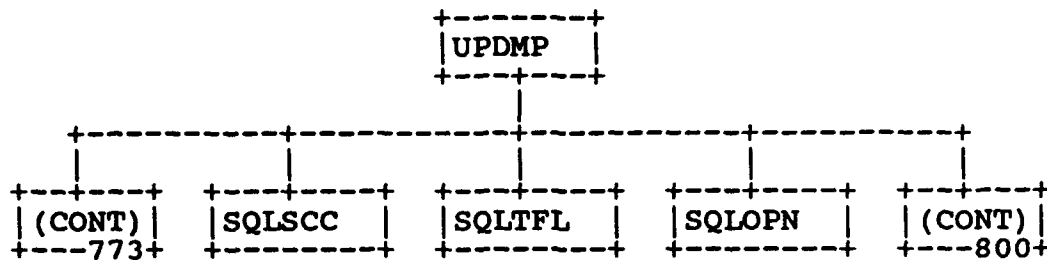
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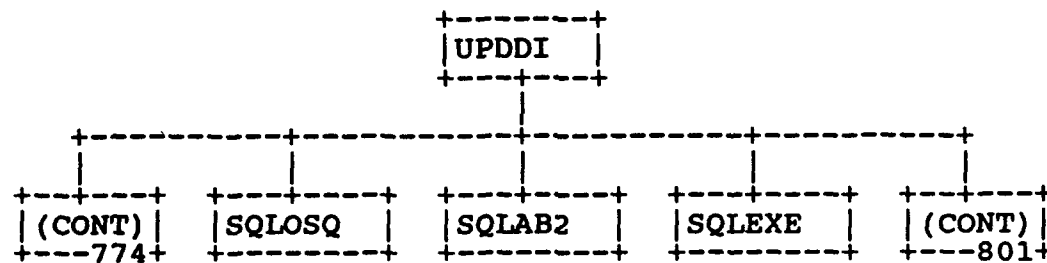
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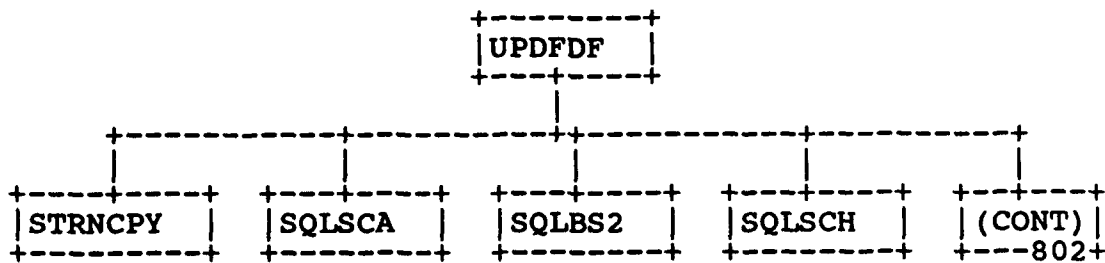
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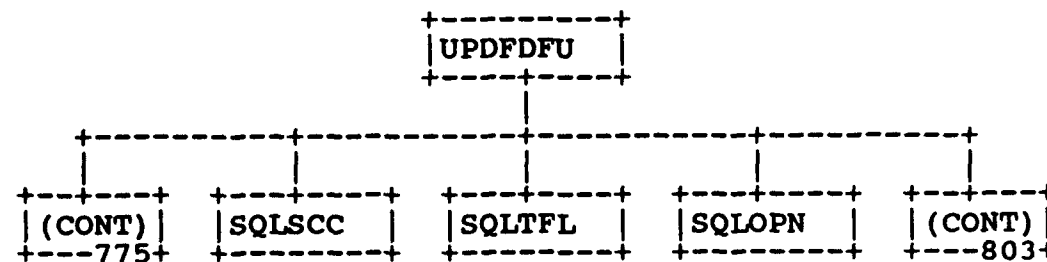
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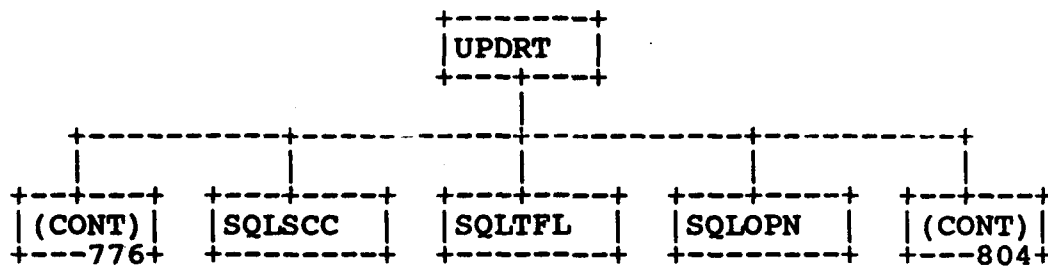
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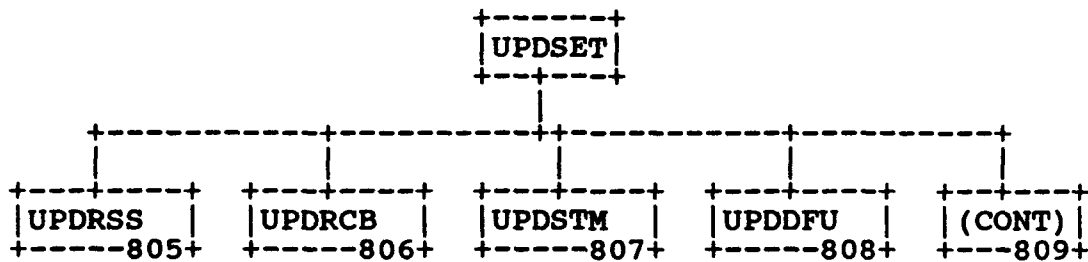
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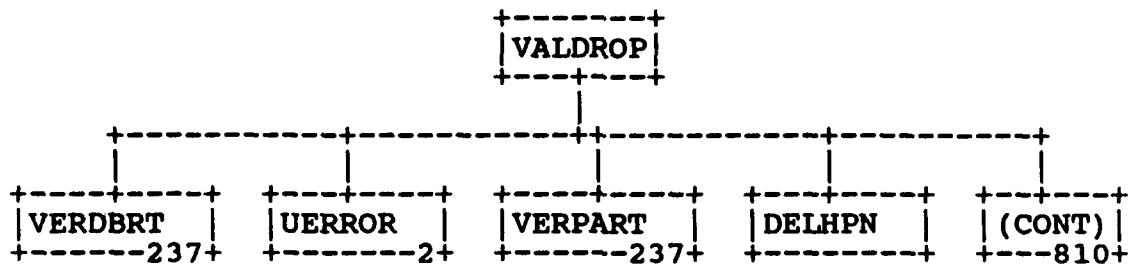
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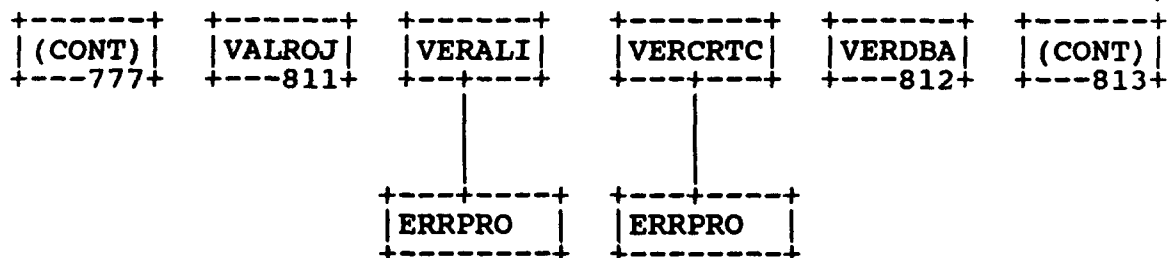
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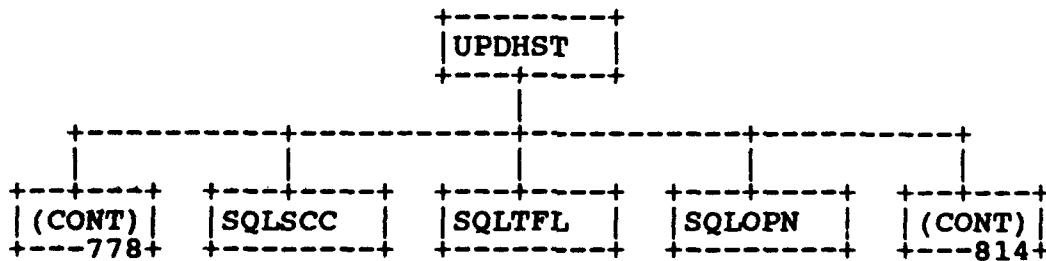
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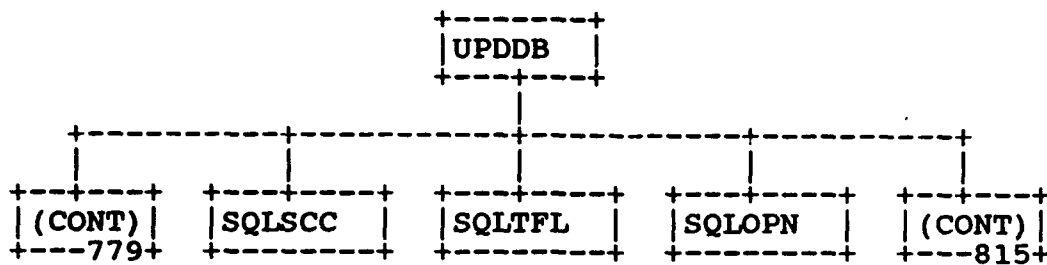
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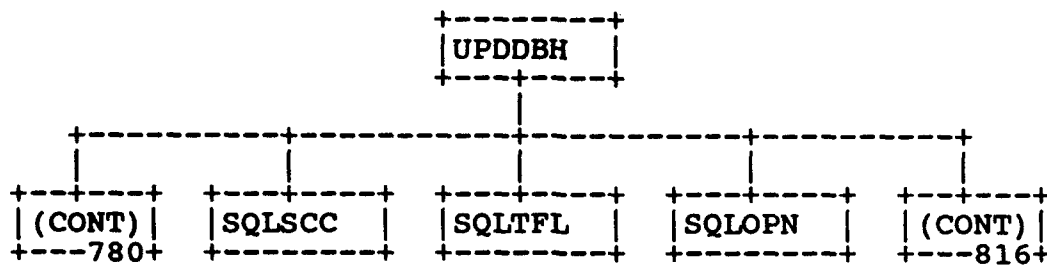
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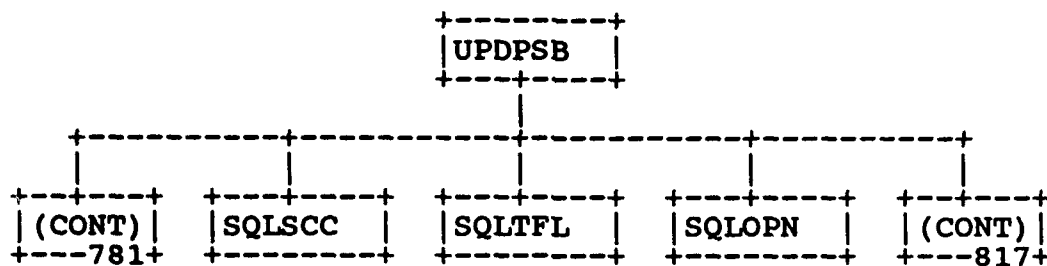
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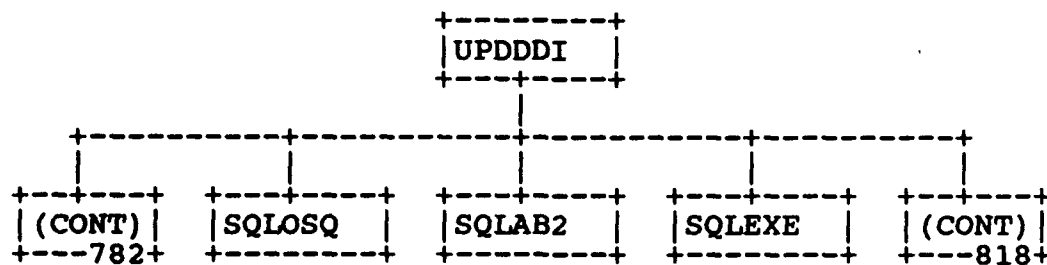
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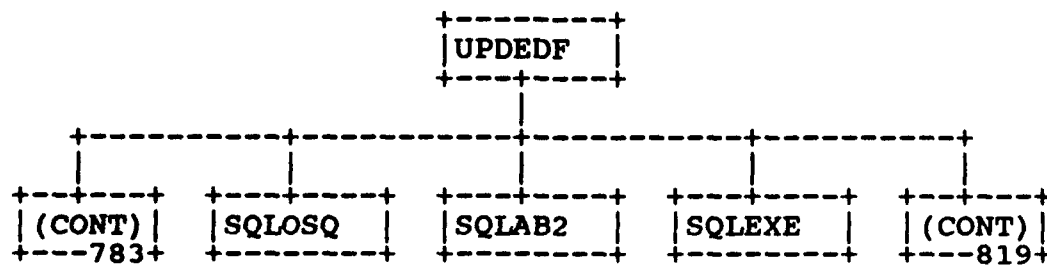
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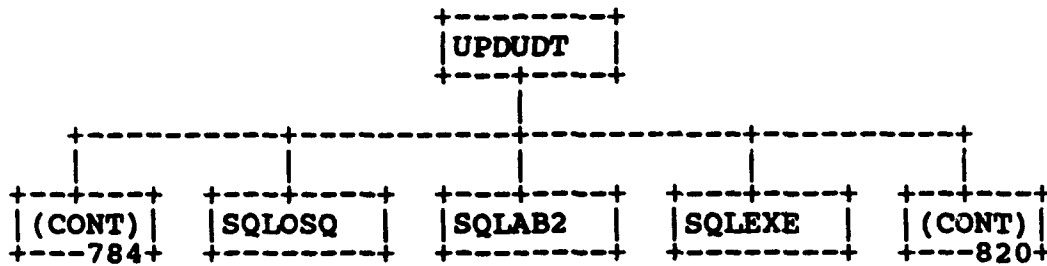
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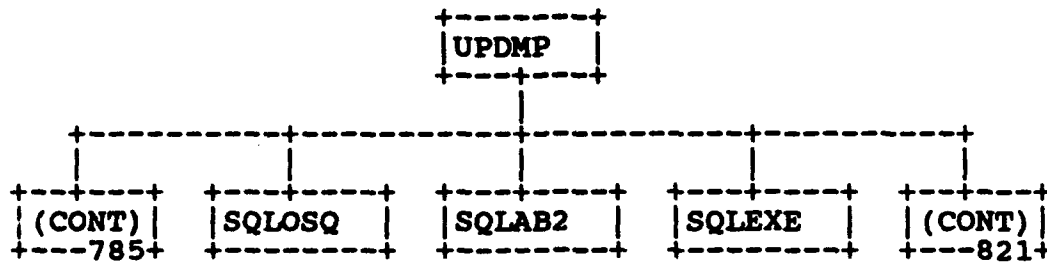
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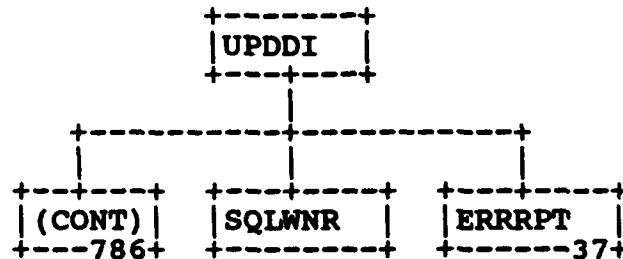
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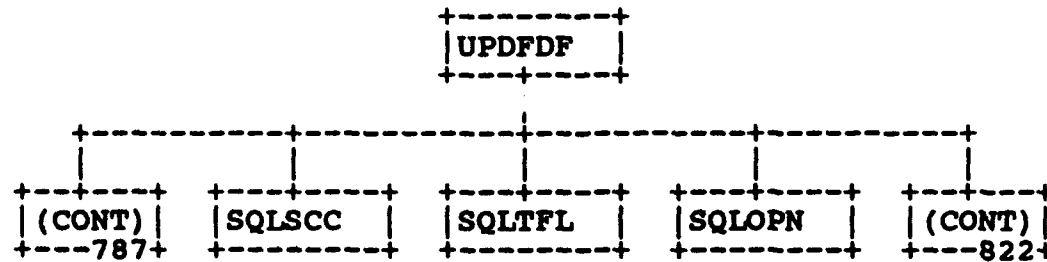
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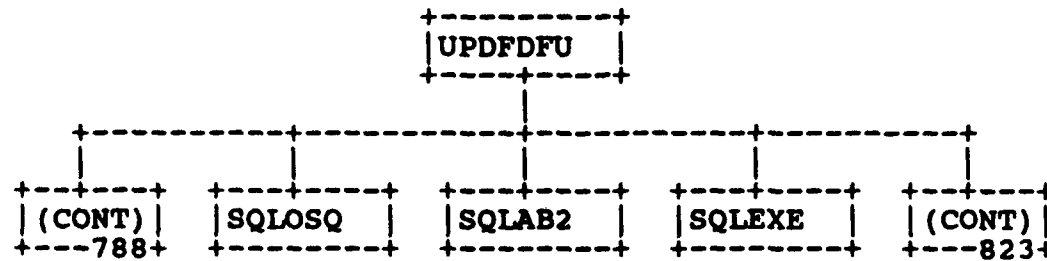
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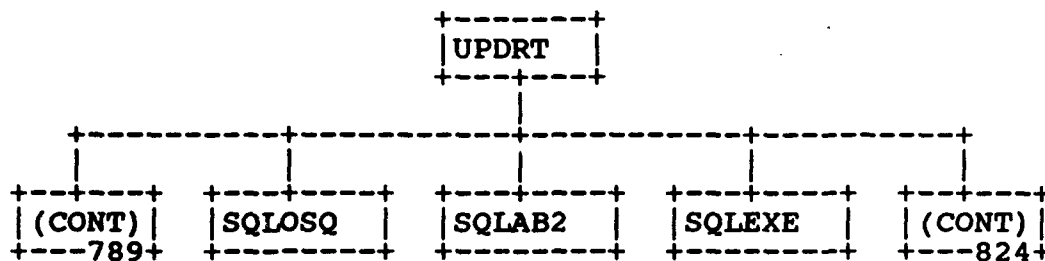
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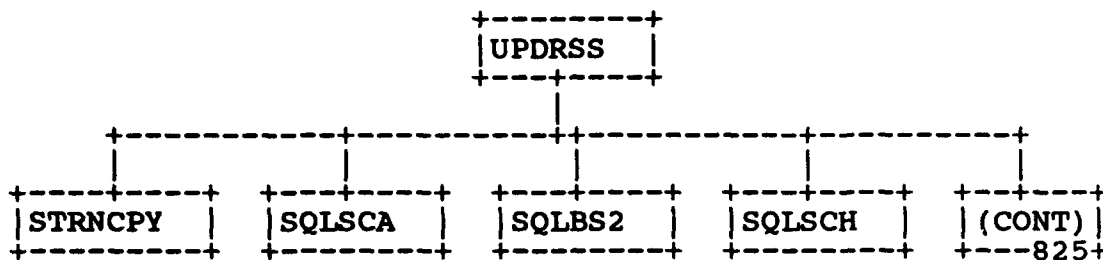
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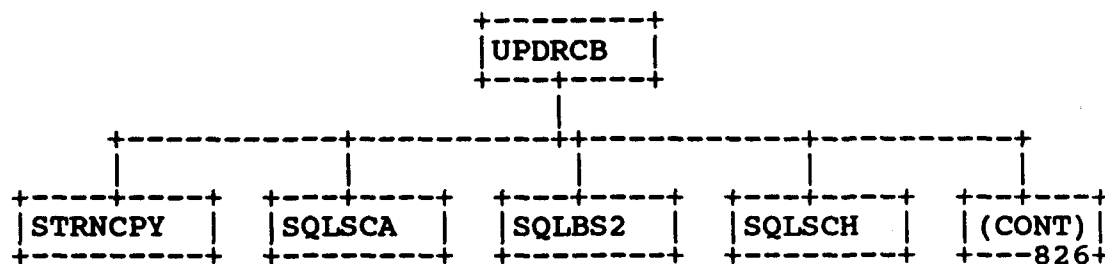
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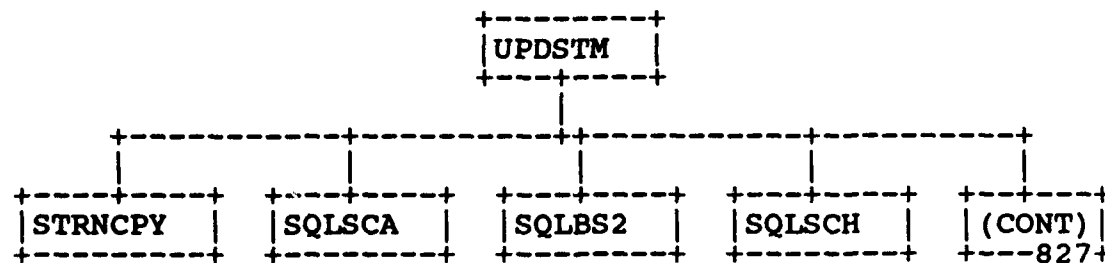
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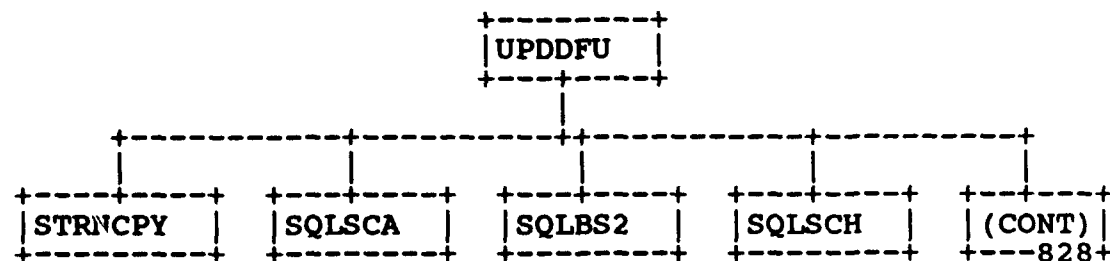
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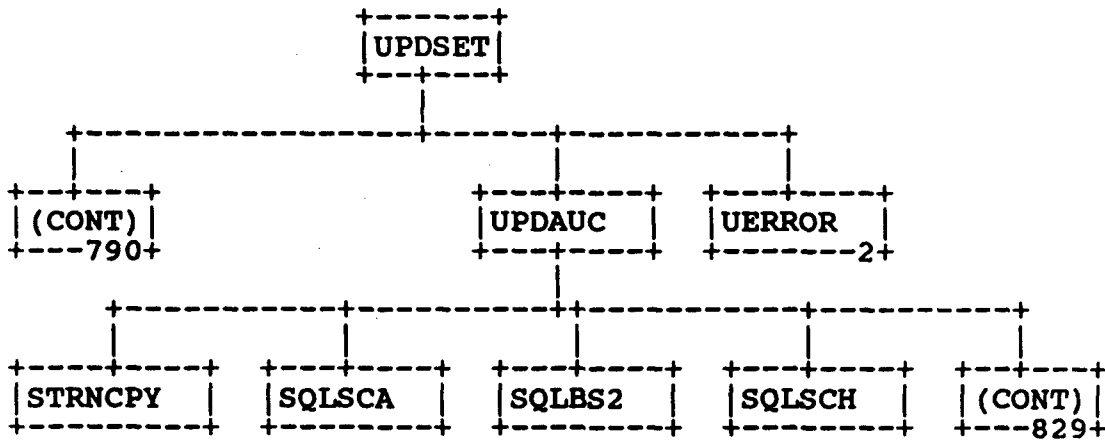
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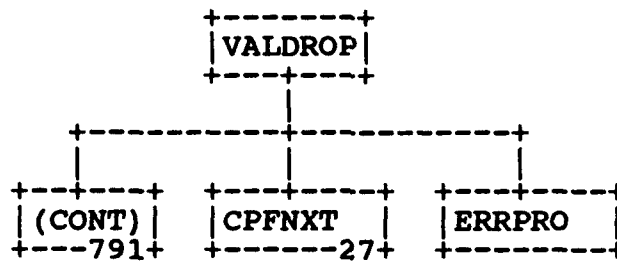
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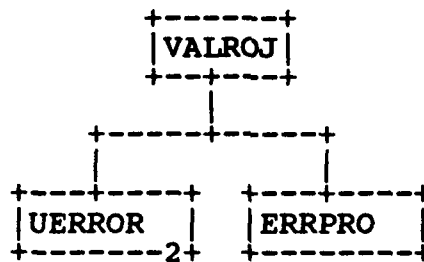
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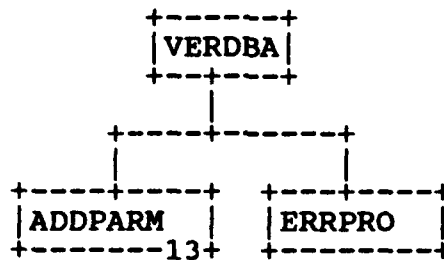
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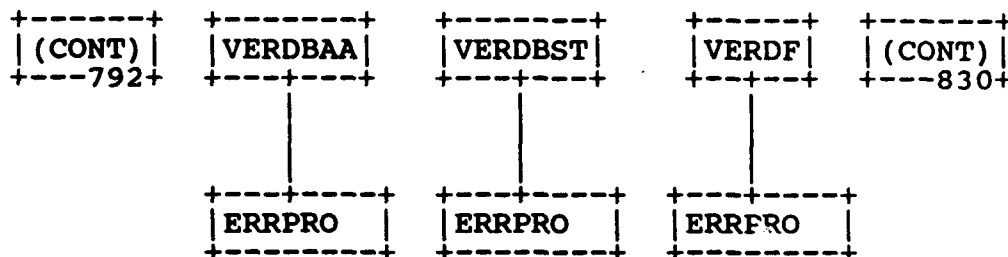
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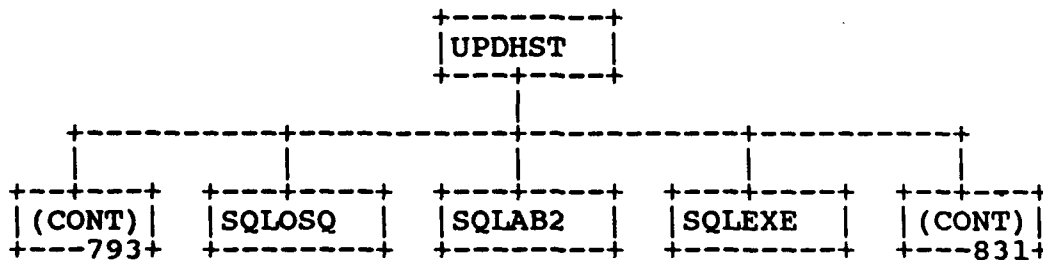
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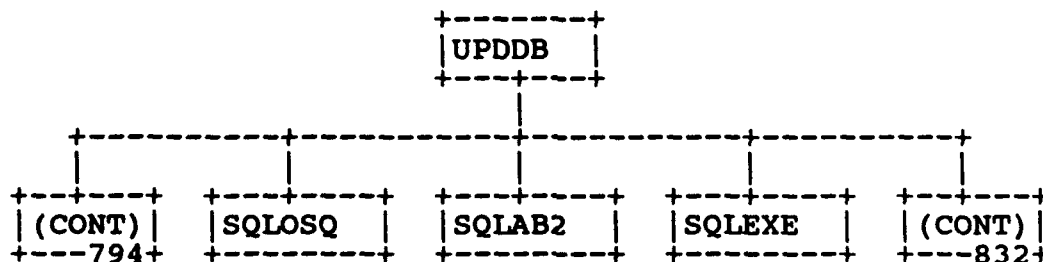
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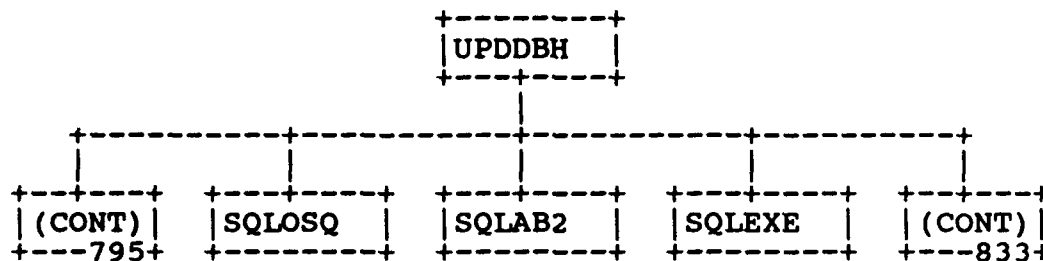
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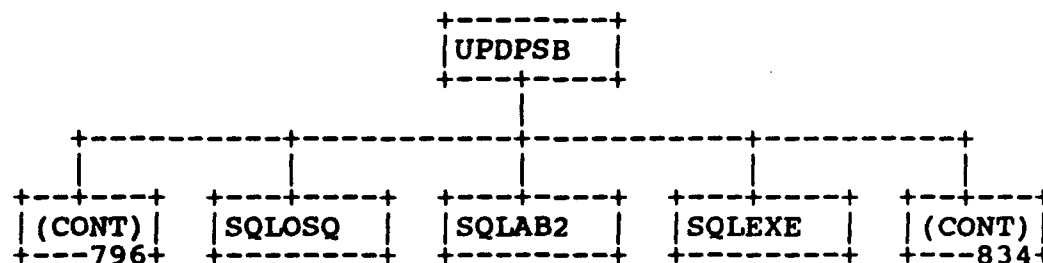
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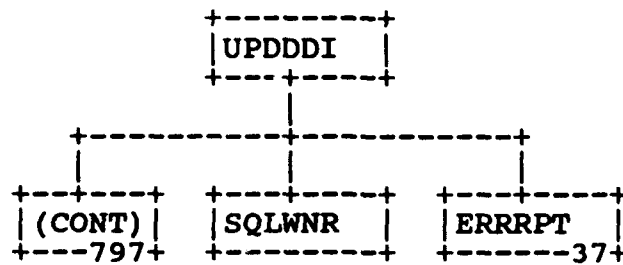
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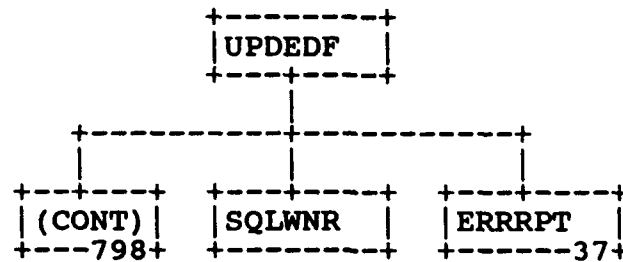
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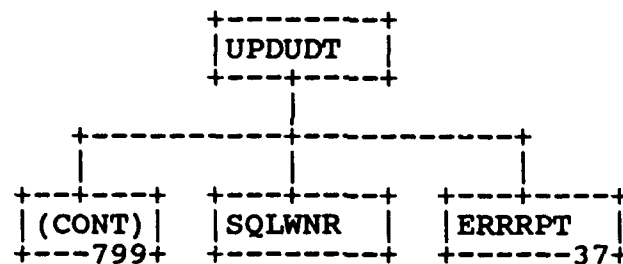
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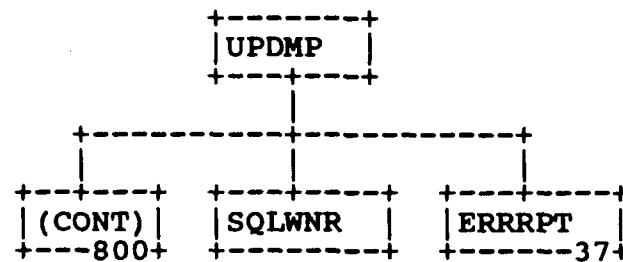
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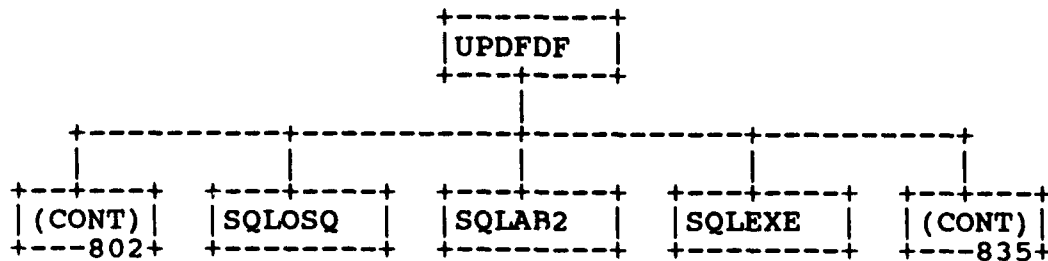
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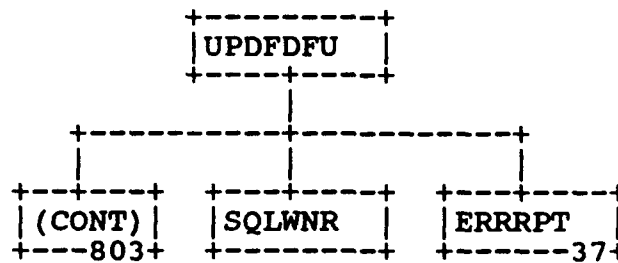
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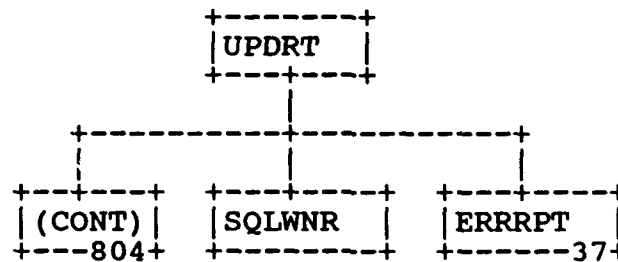
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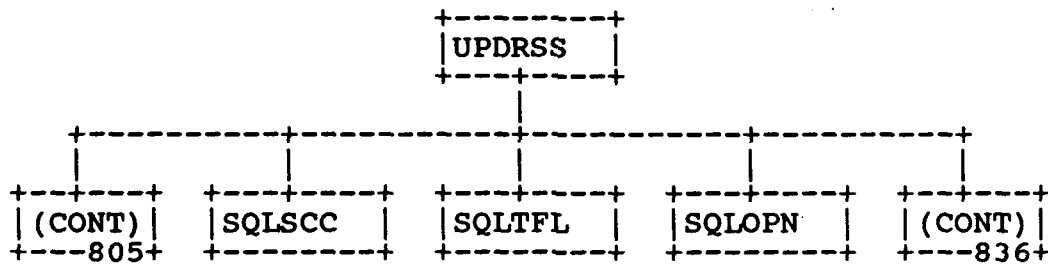
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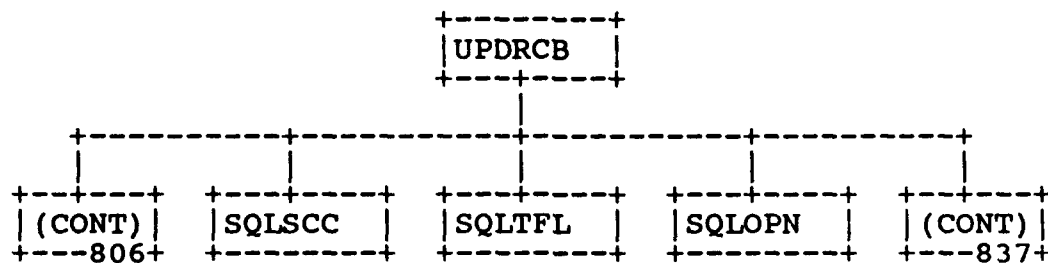
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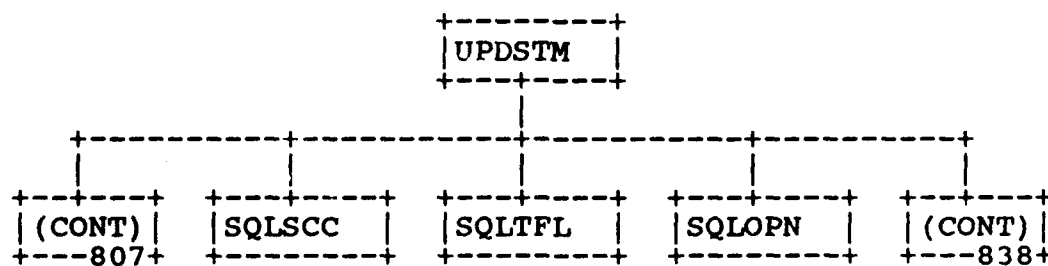
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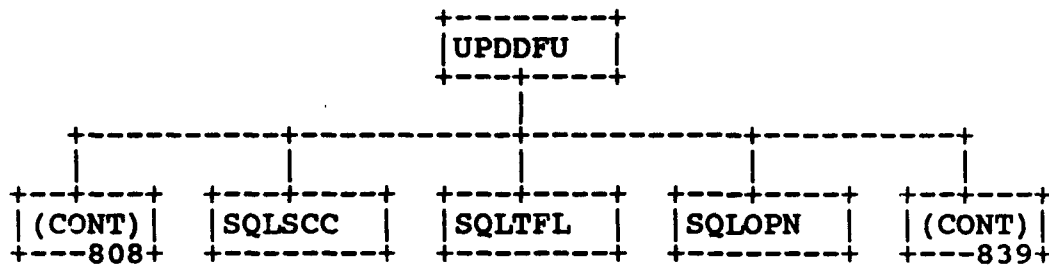
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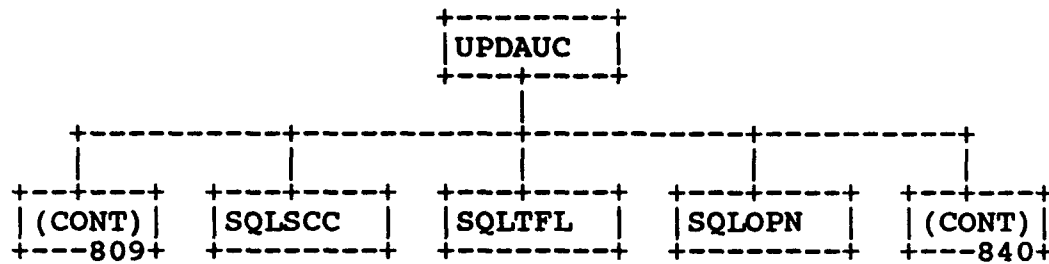
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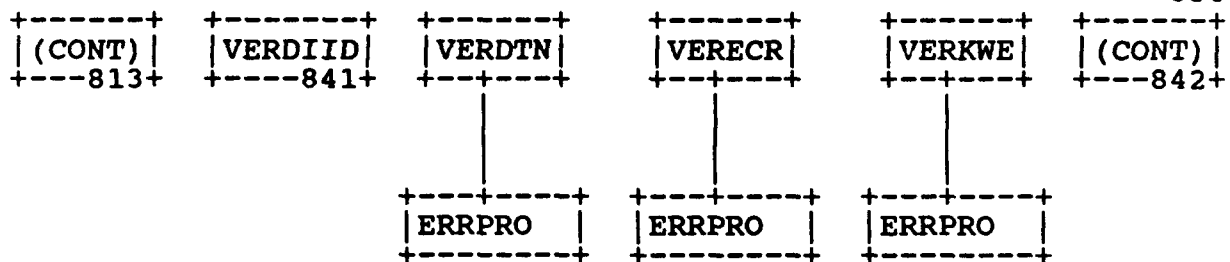
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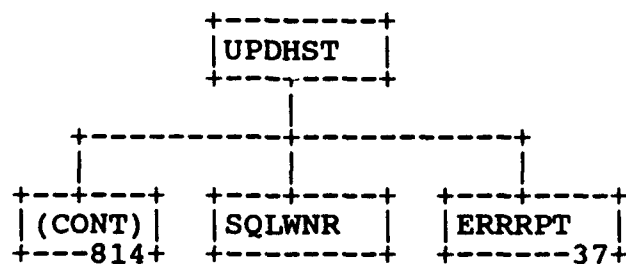
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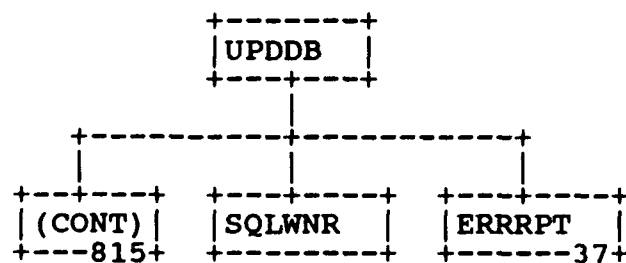
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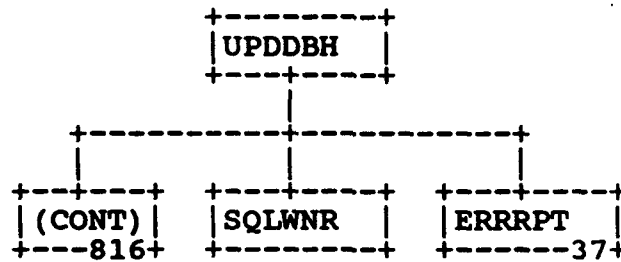
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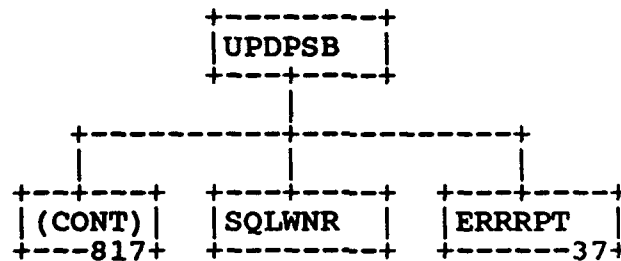
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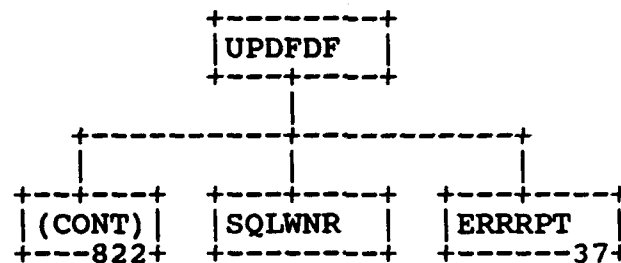
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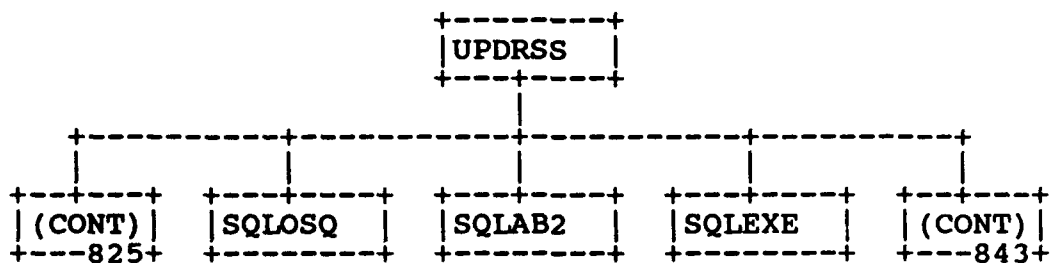
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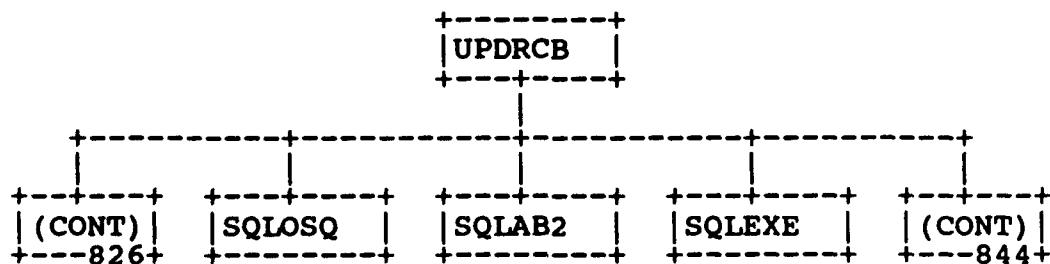
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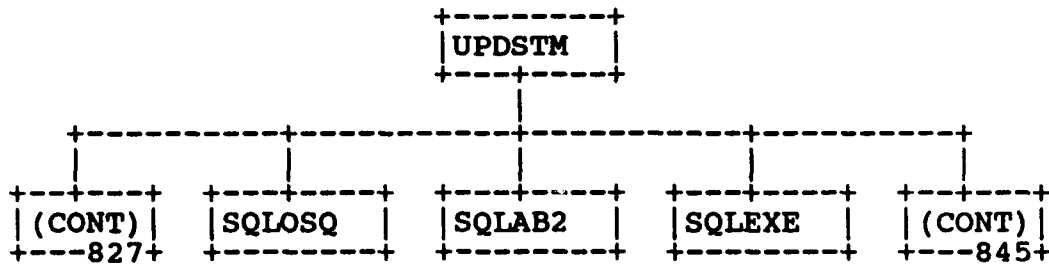
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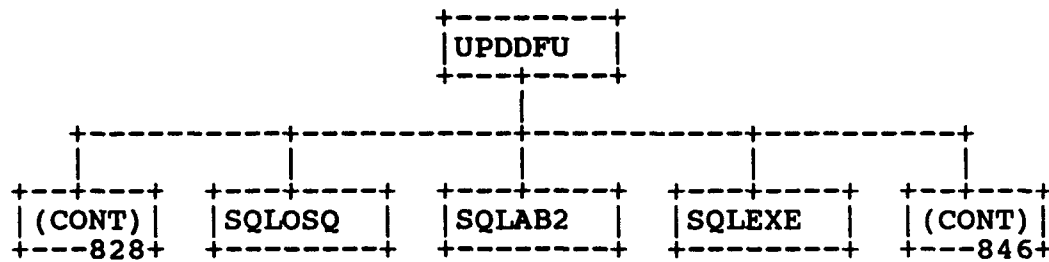
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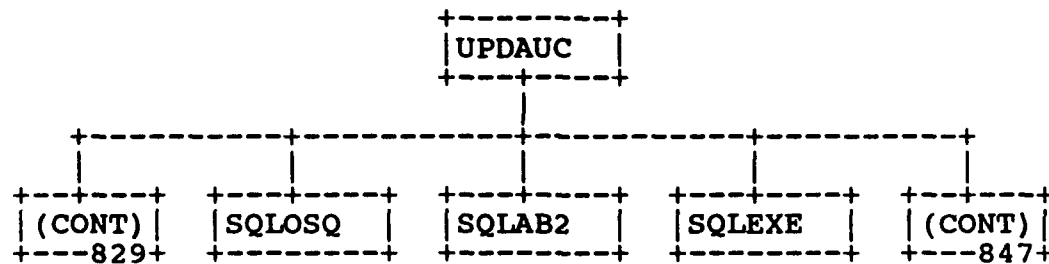
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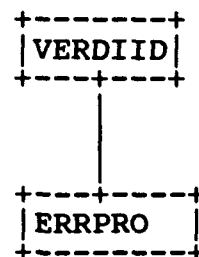
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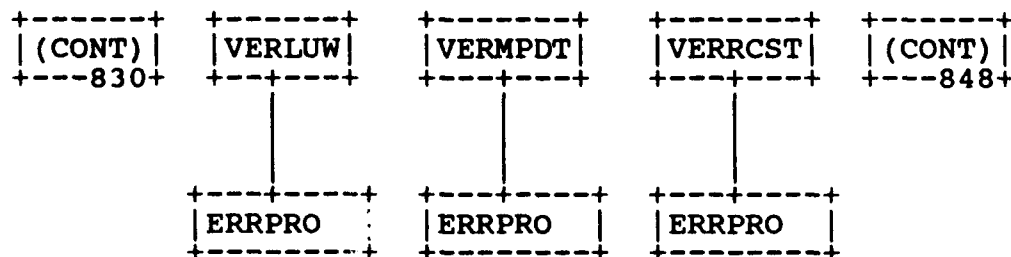
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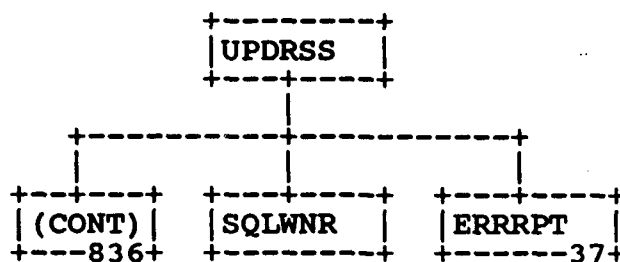
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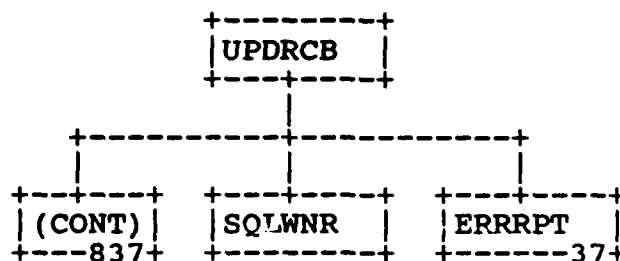
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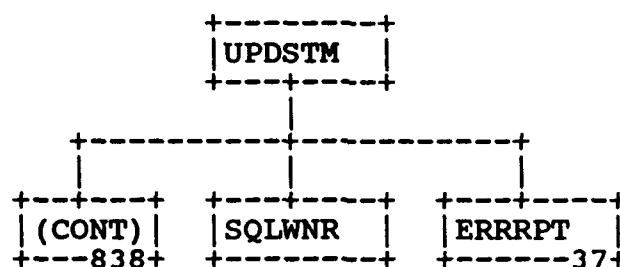
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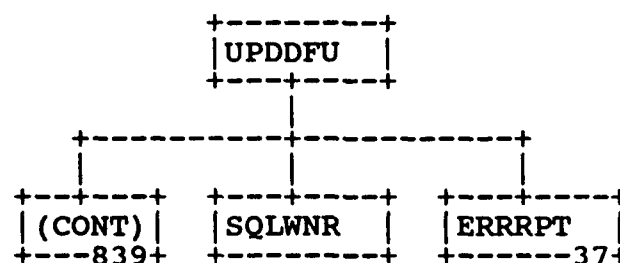
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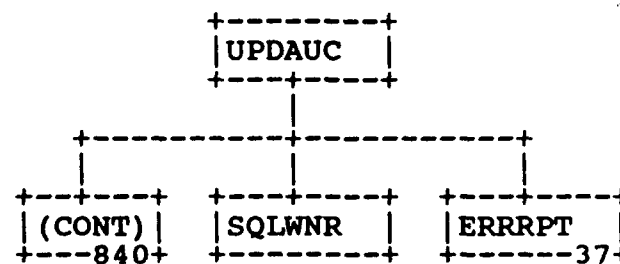
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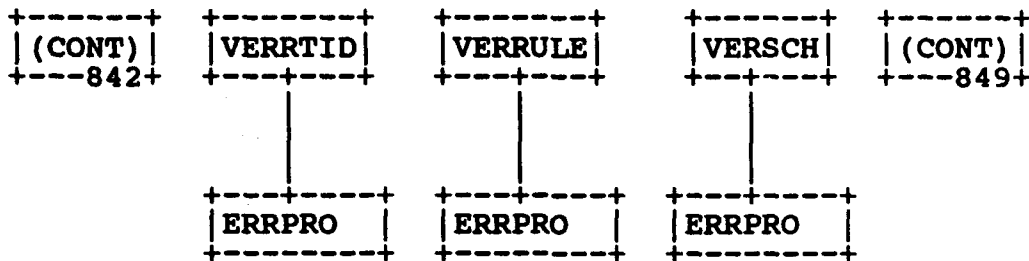
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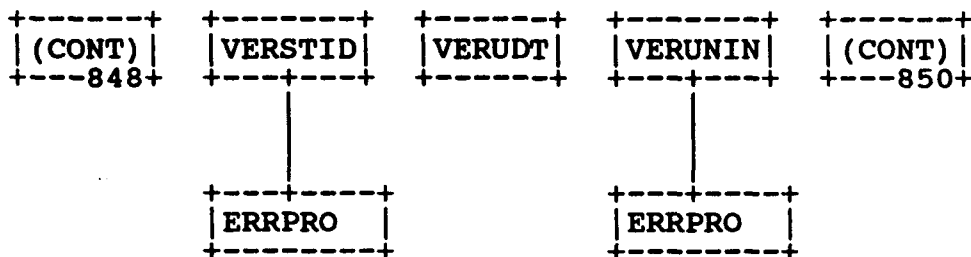
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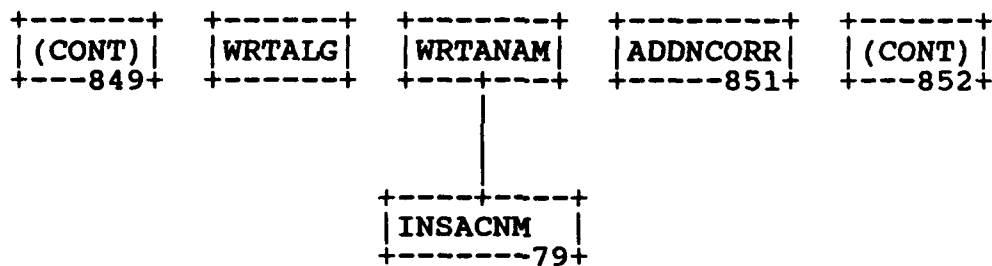
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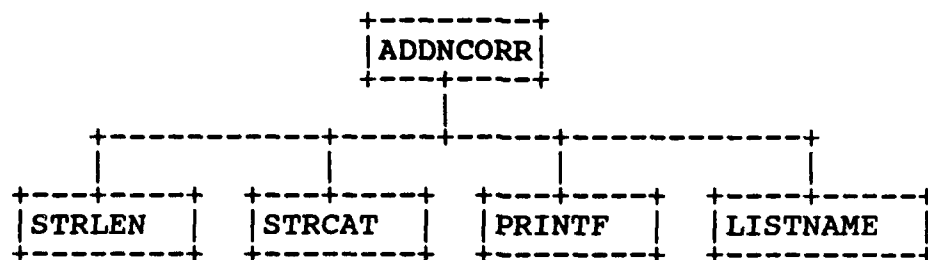
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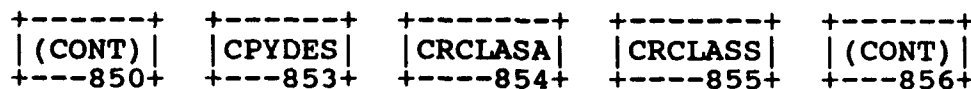
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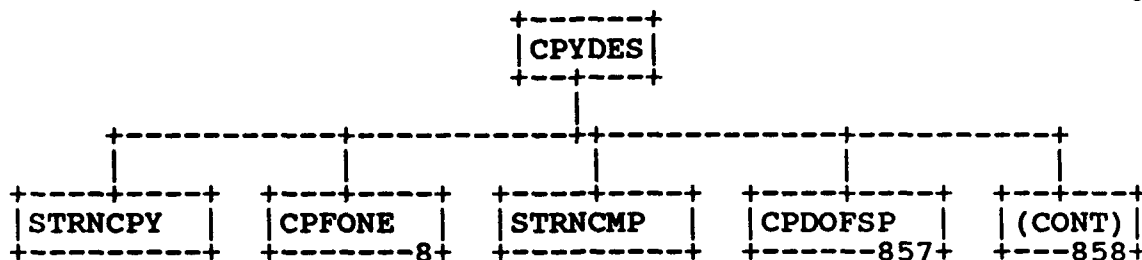
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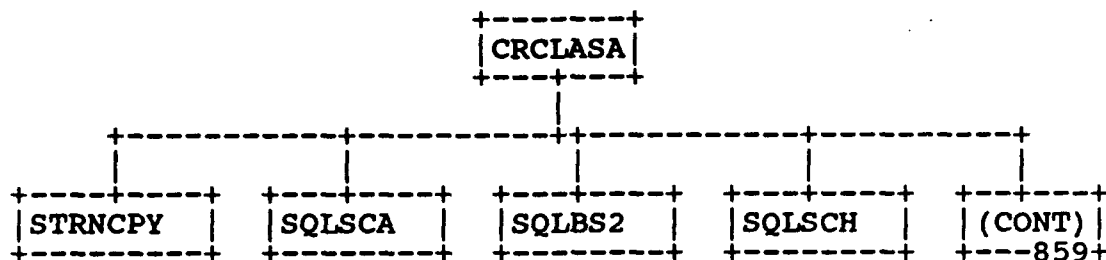
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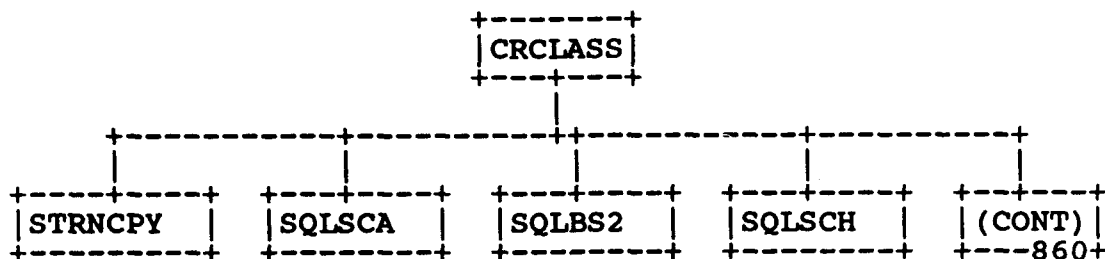
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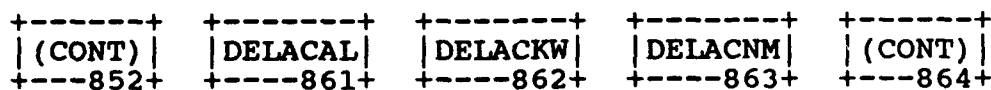
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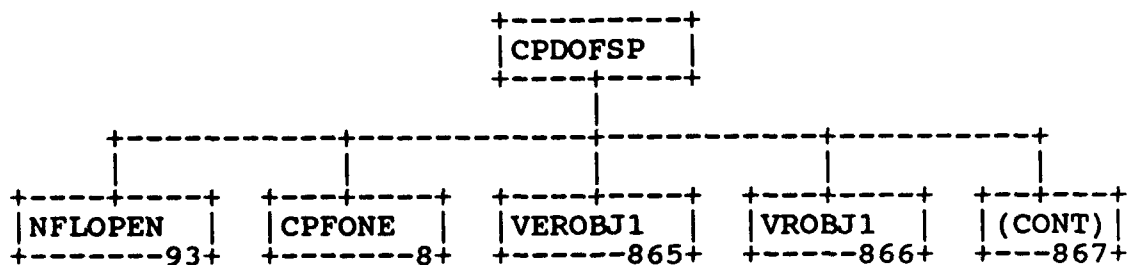
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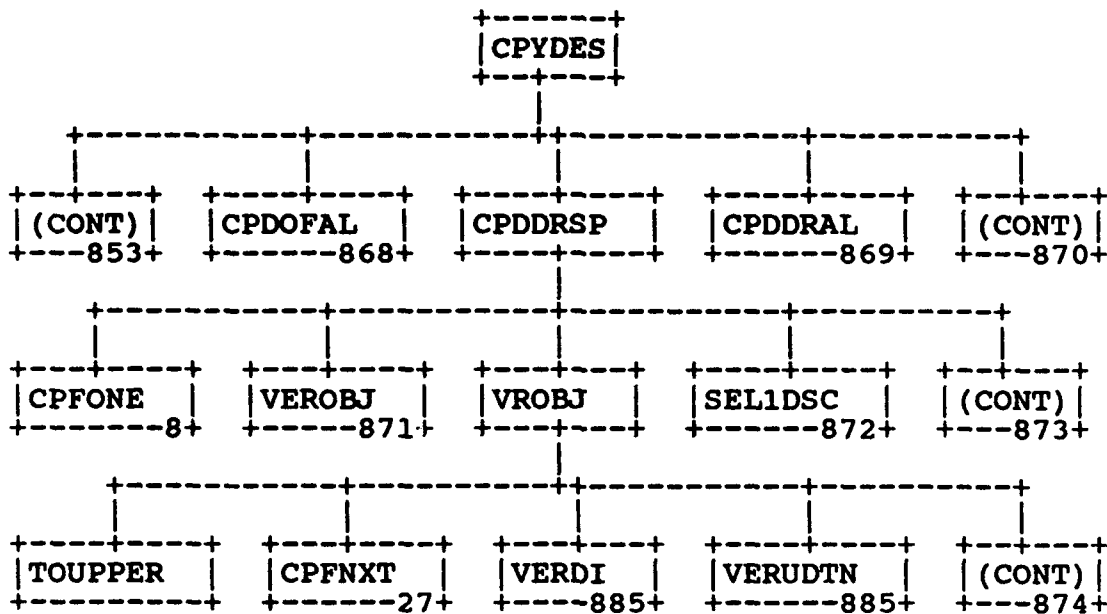
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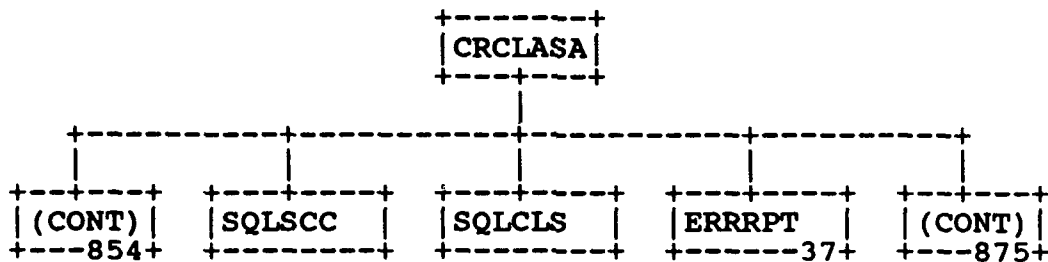
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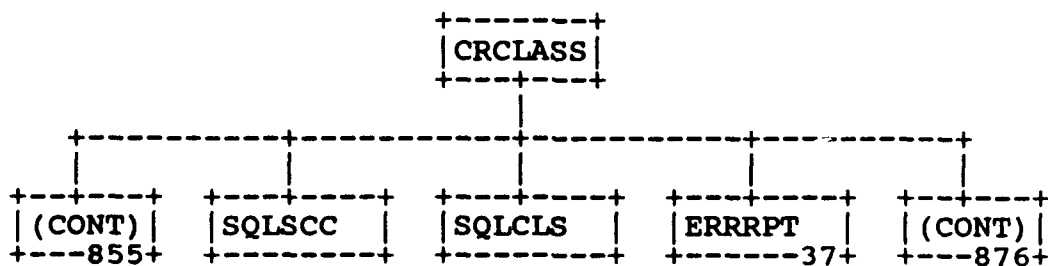
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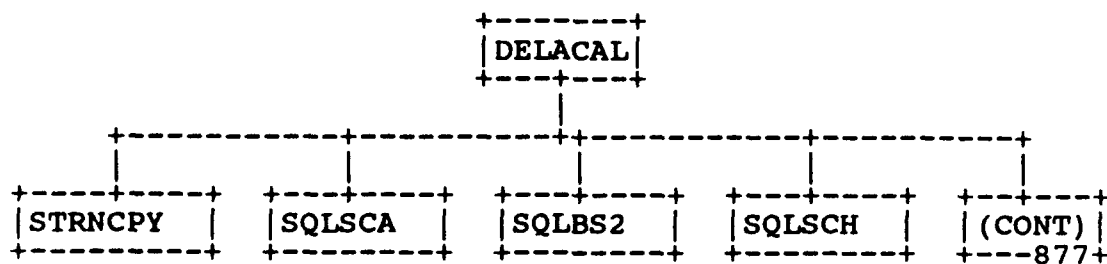
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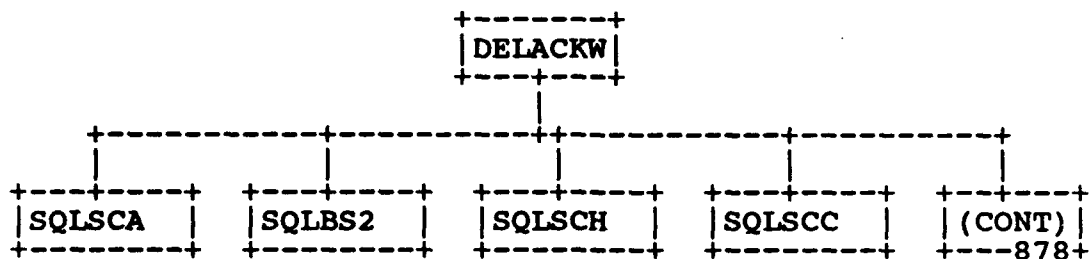
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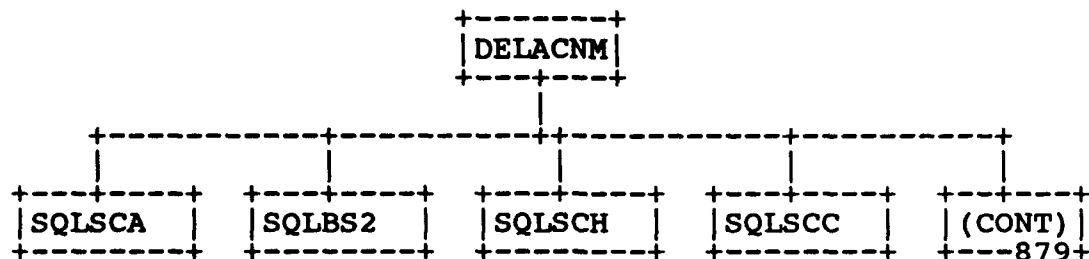
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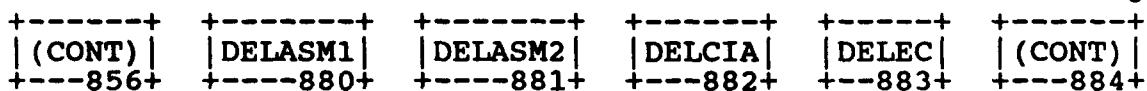
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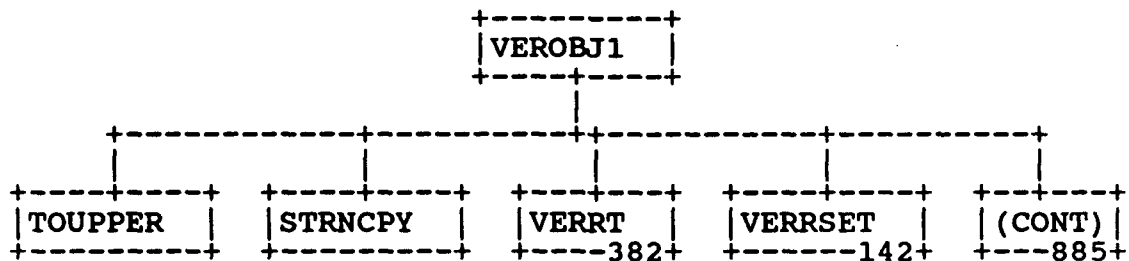
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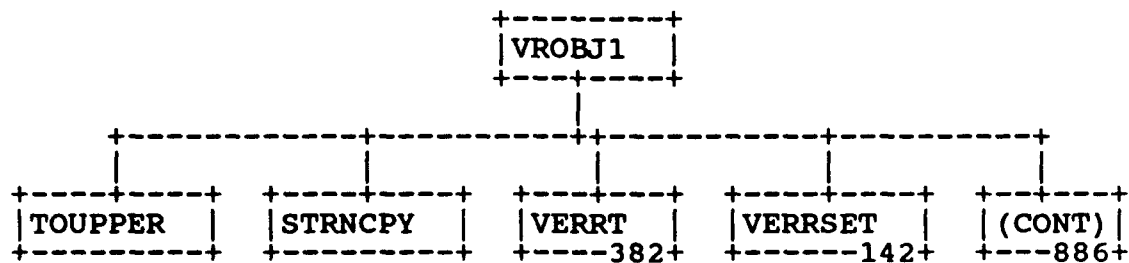
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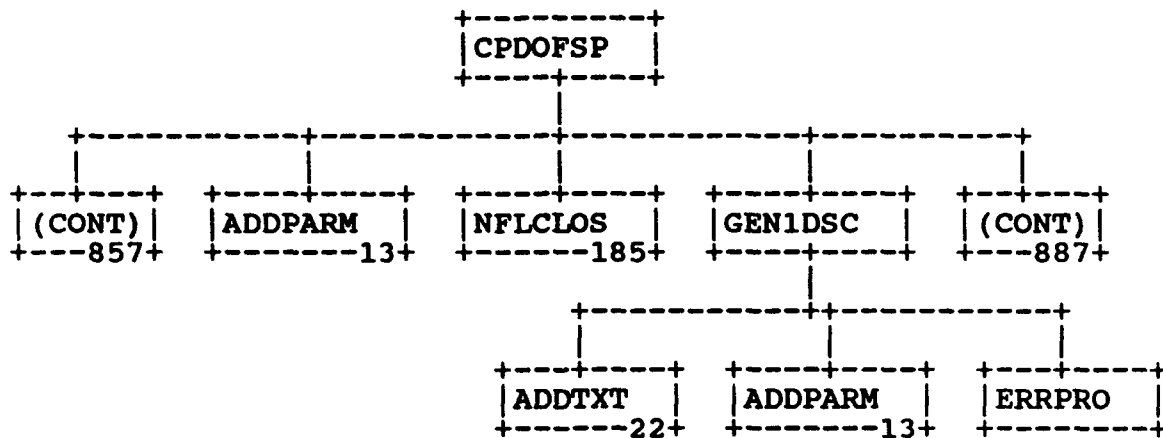
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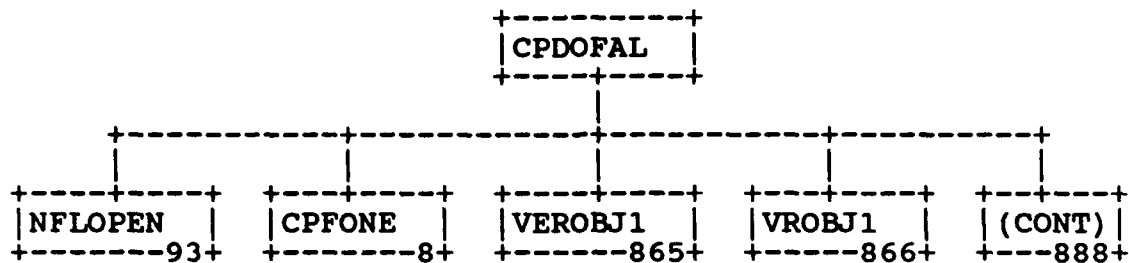
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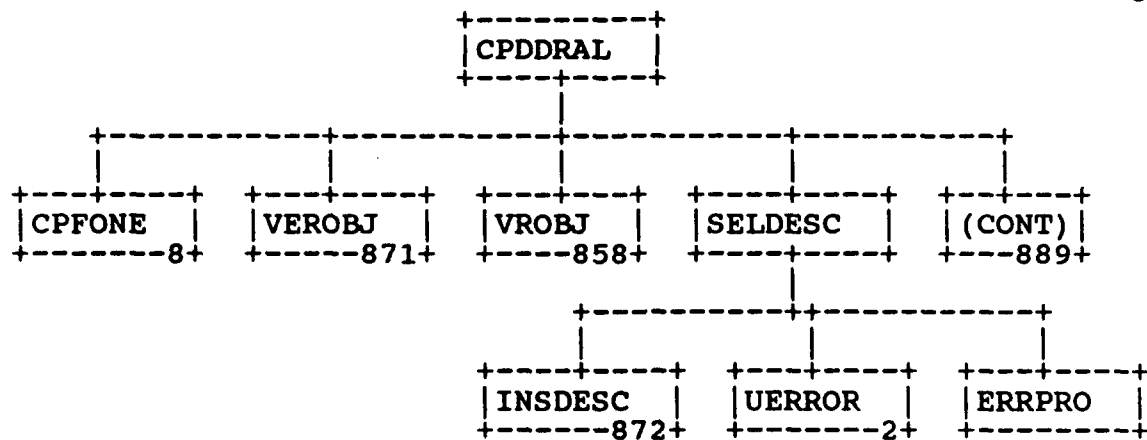
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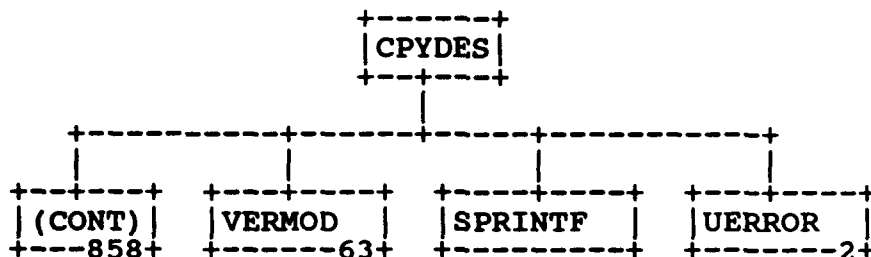
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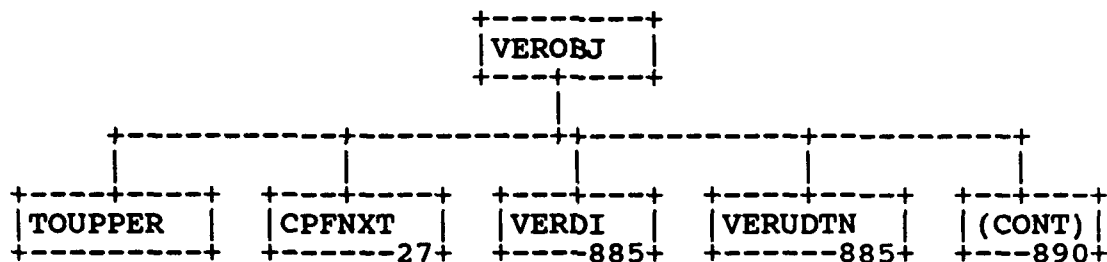
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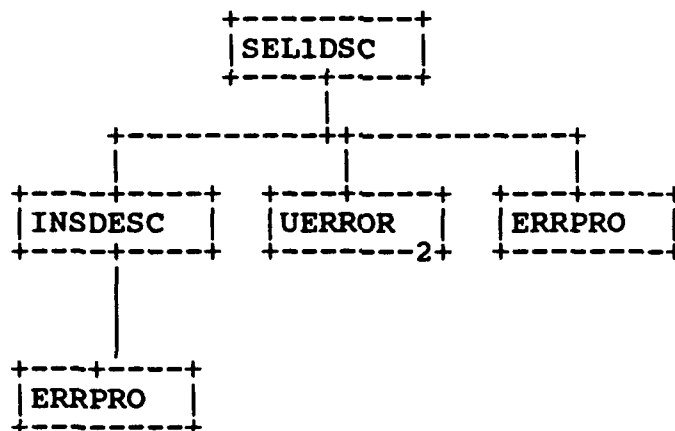
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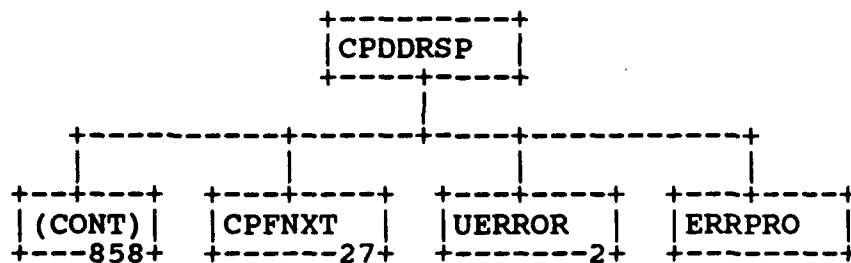
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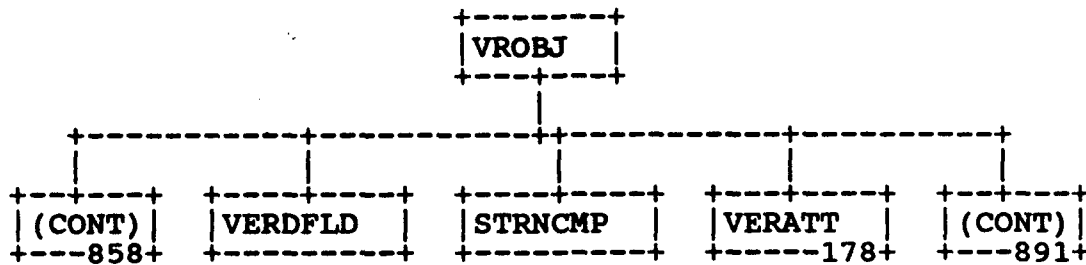
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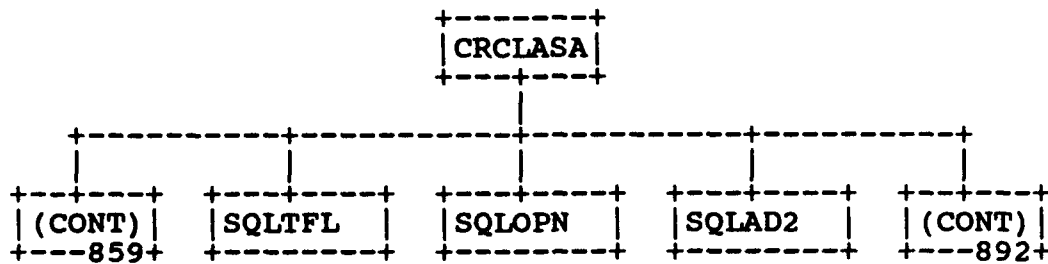
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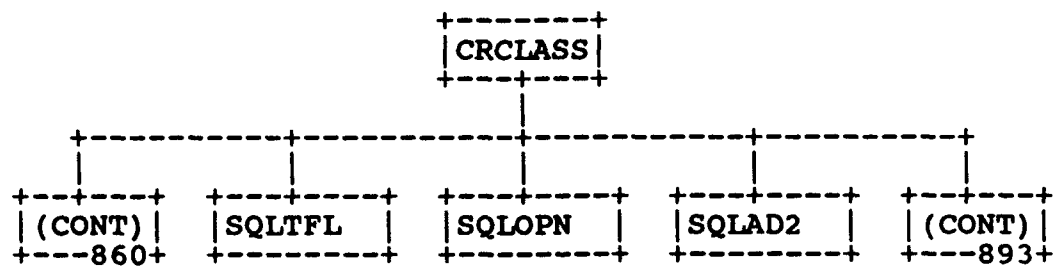
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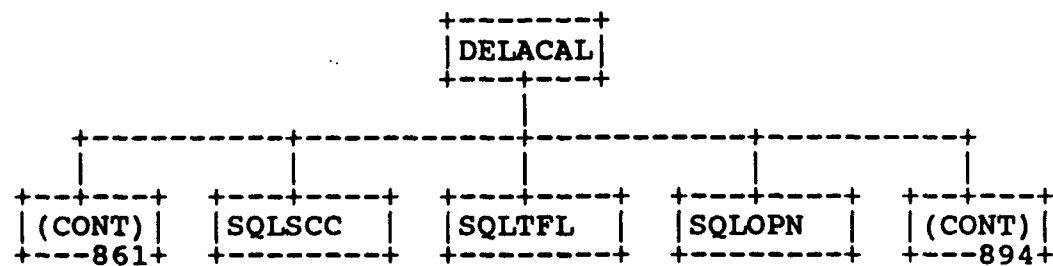
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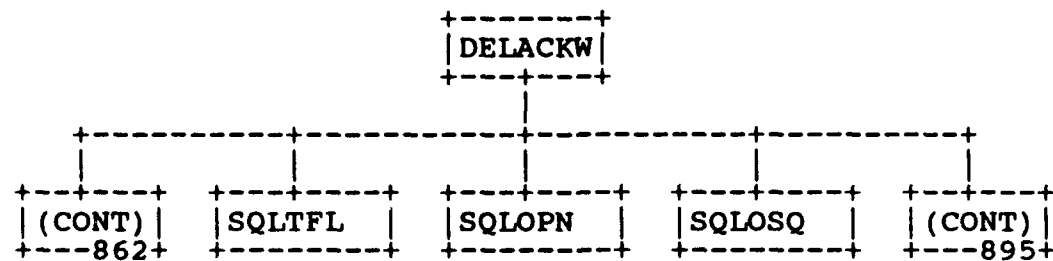
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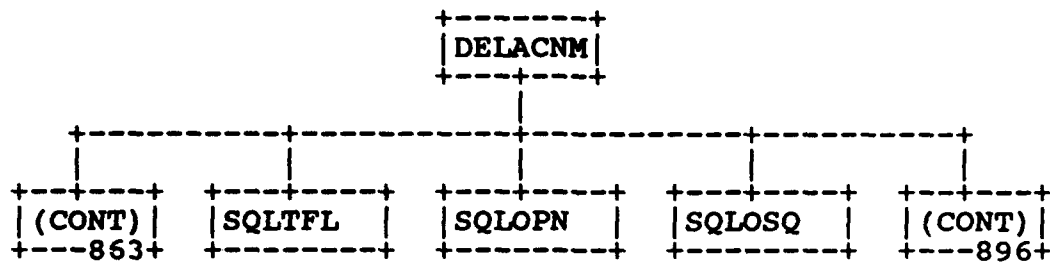
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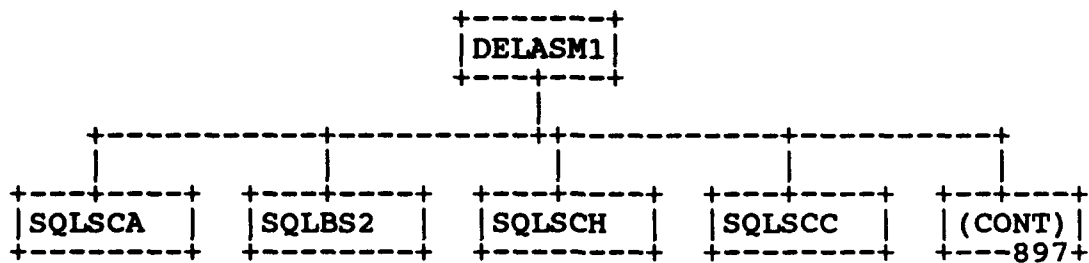
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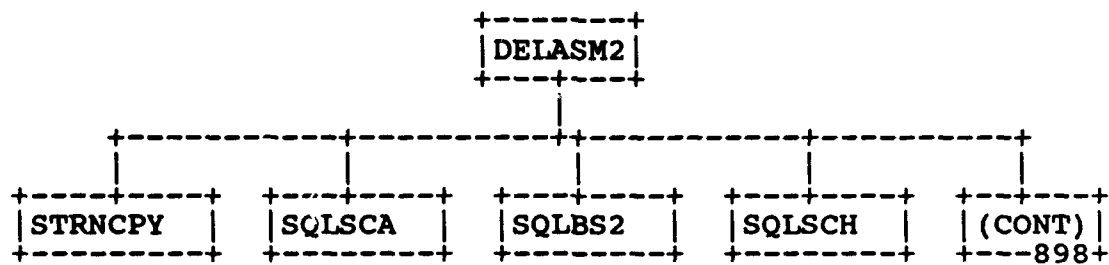
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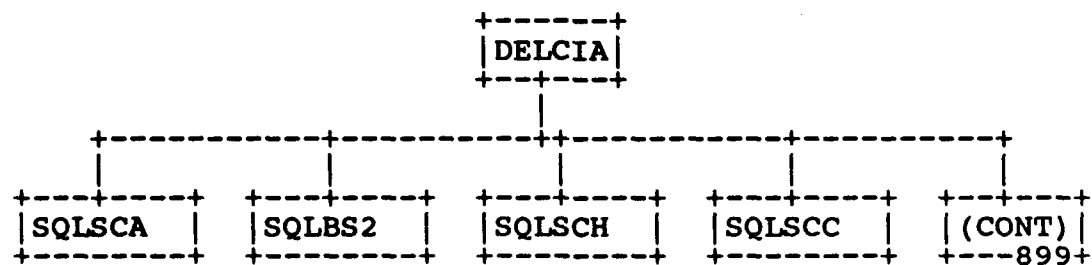
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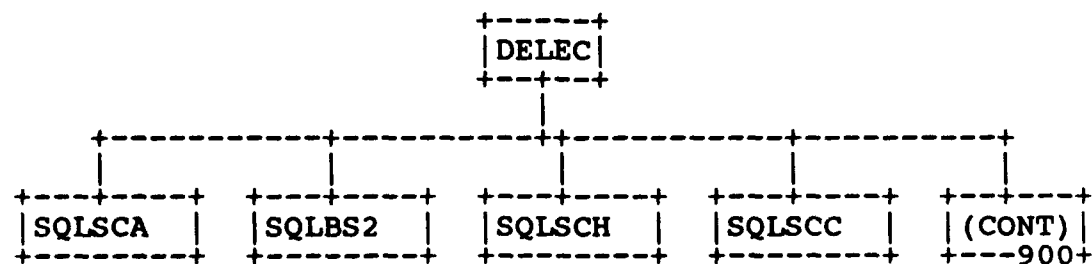
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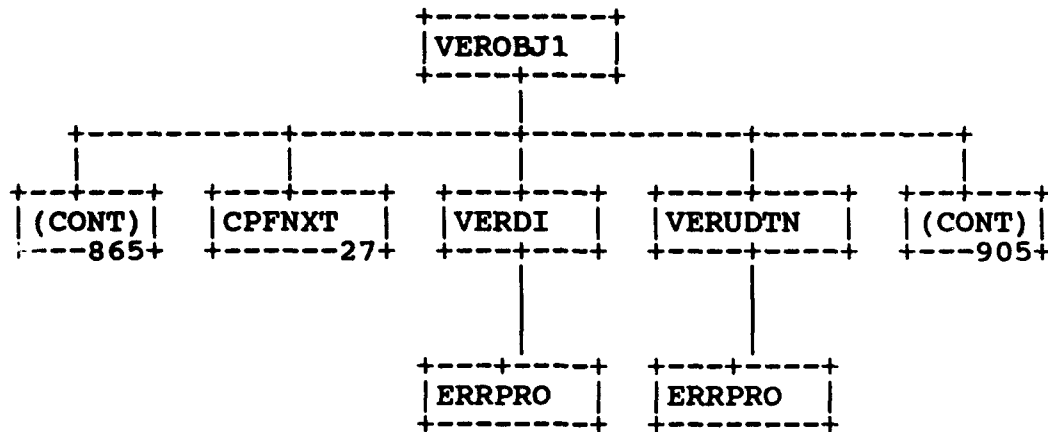
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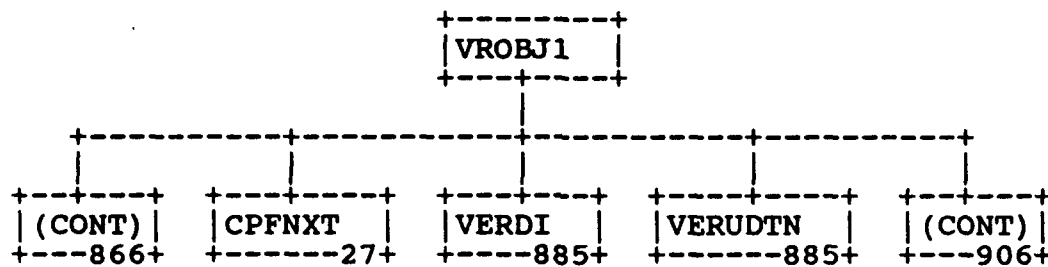
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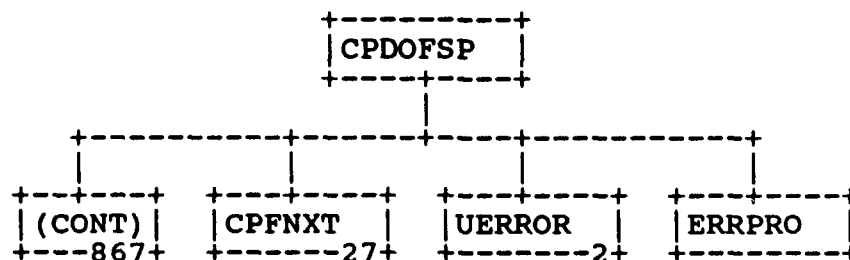
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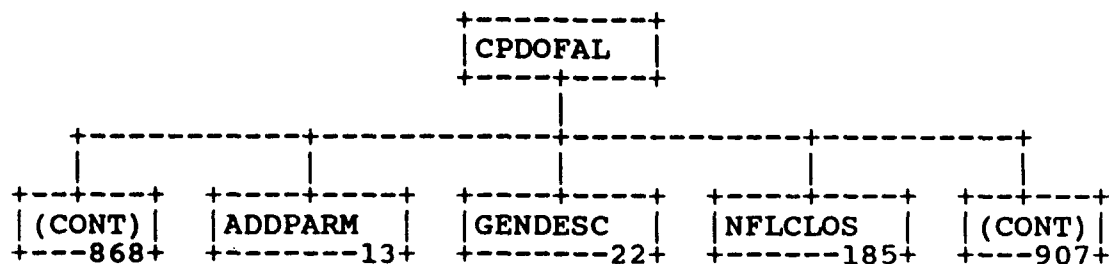
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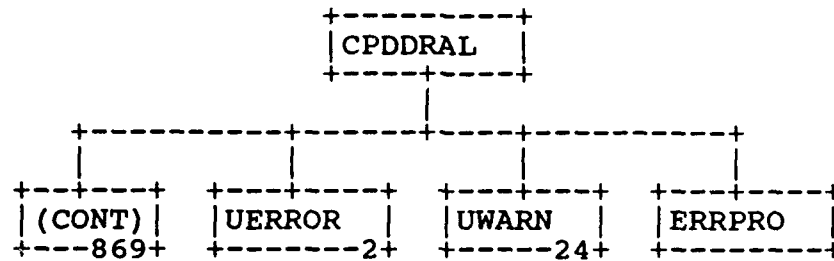
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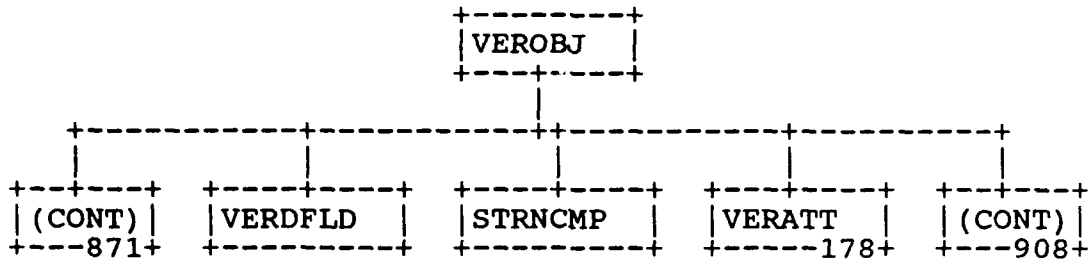
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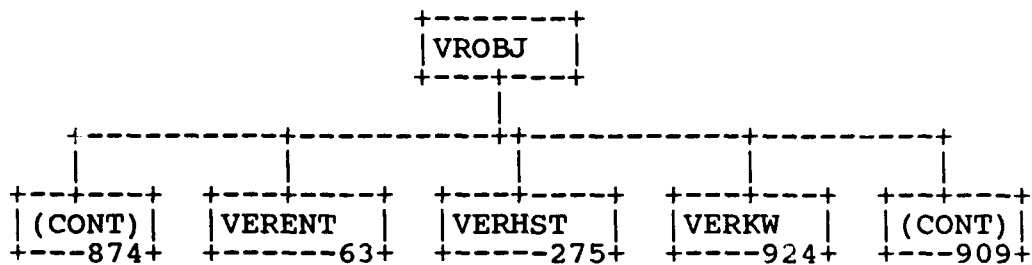
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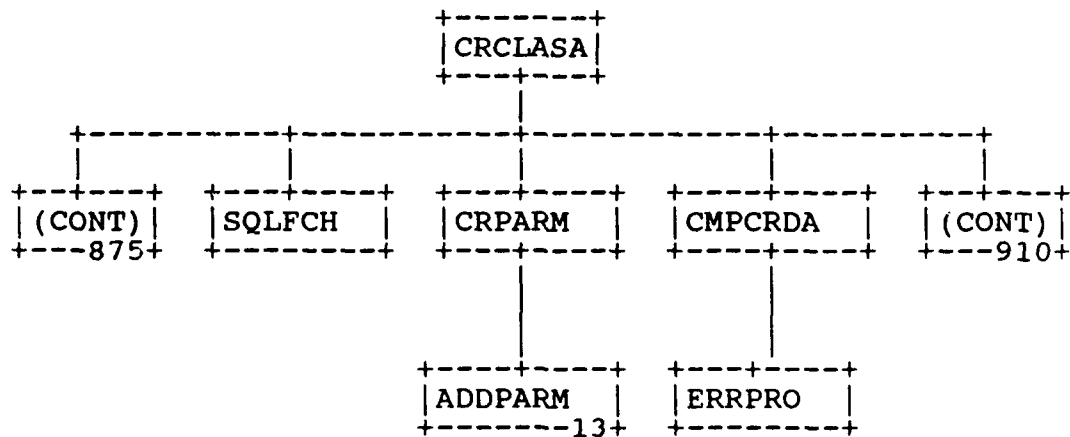
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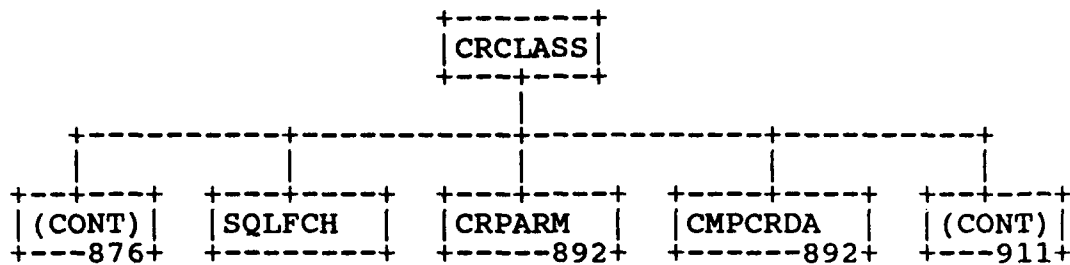
891



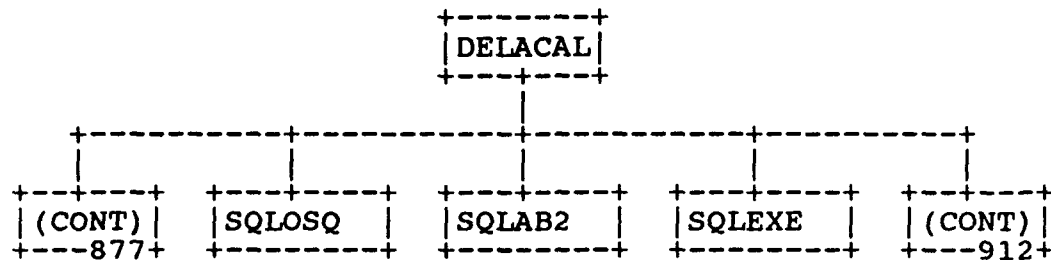
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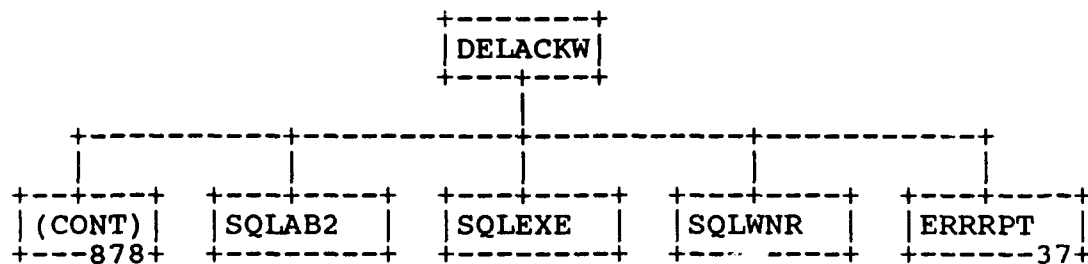
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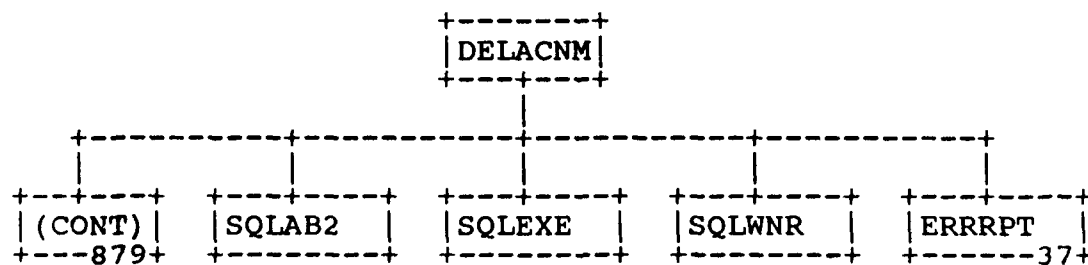
894



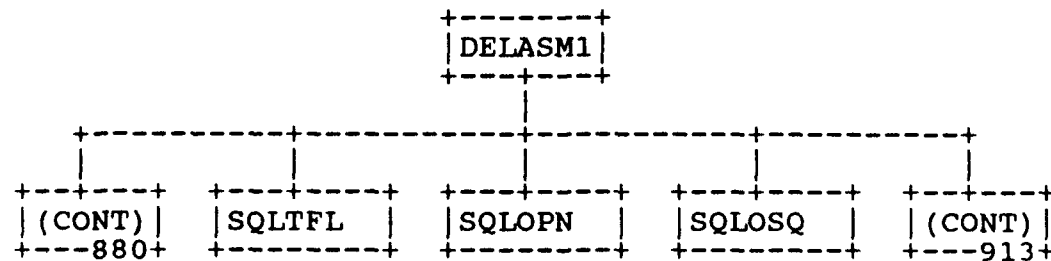
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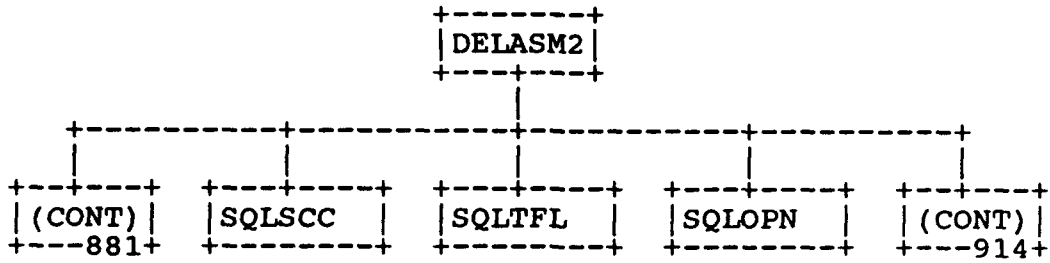
896



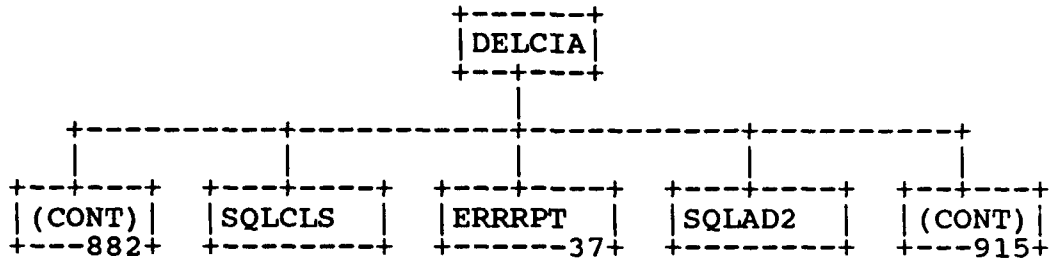
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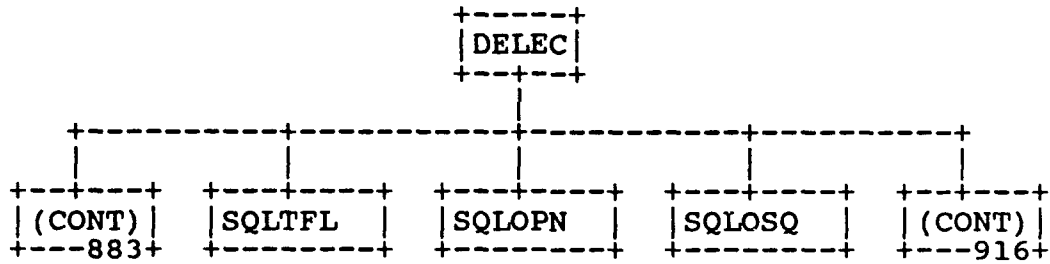
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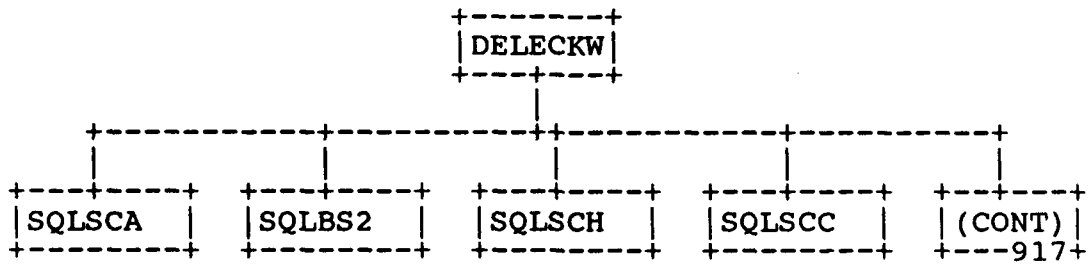
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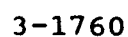


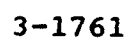
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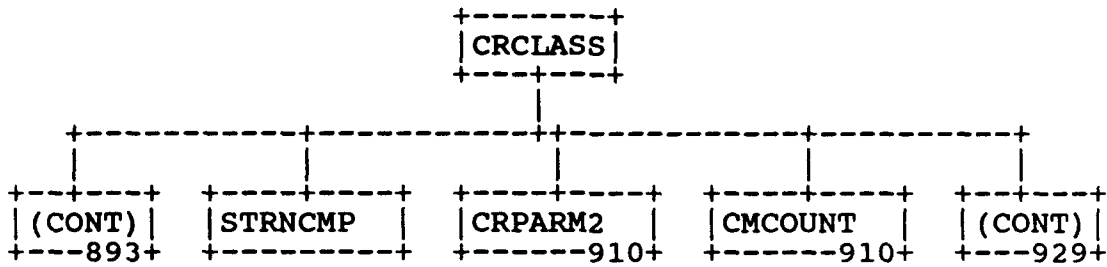
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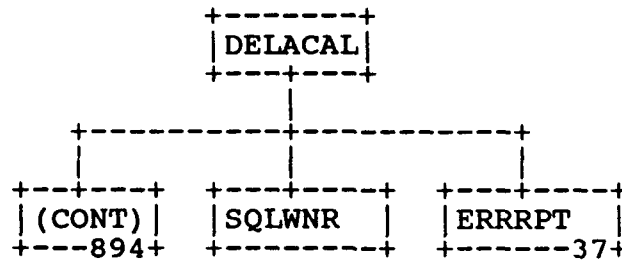




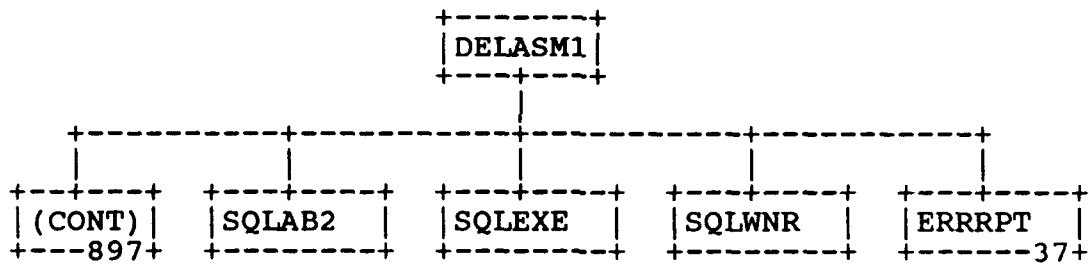
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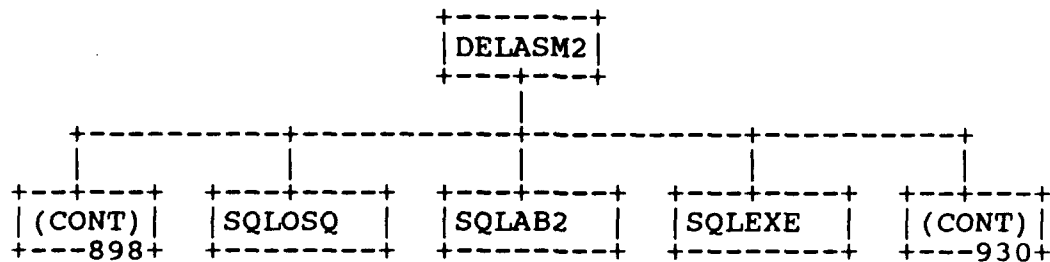
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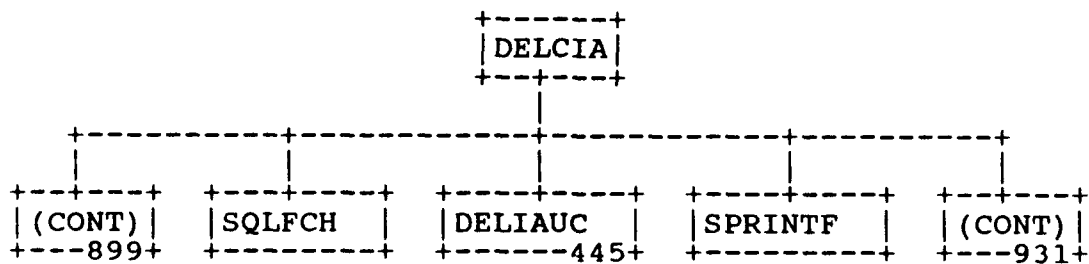
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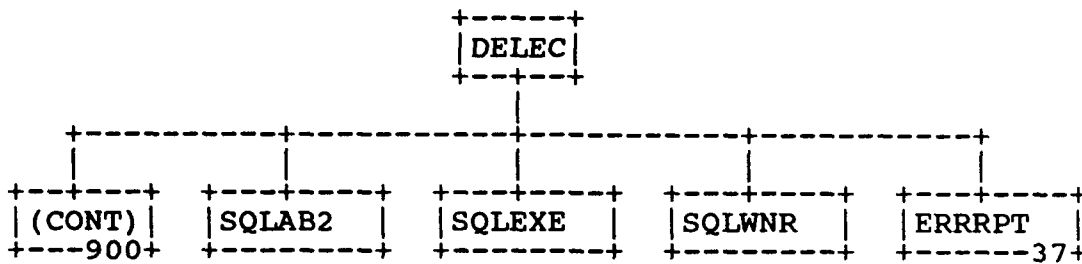
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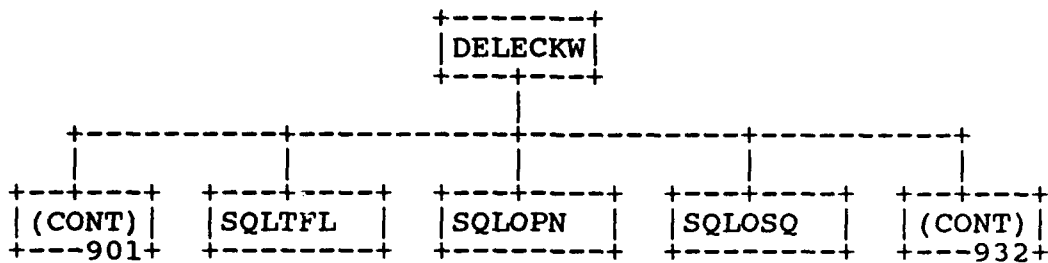
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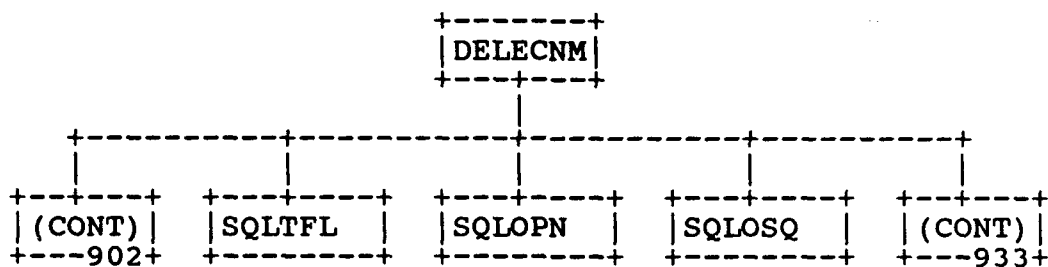
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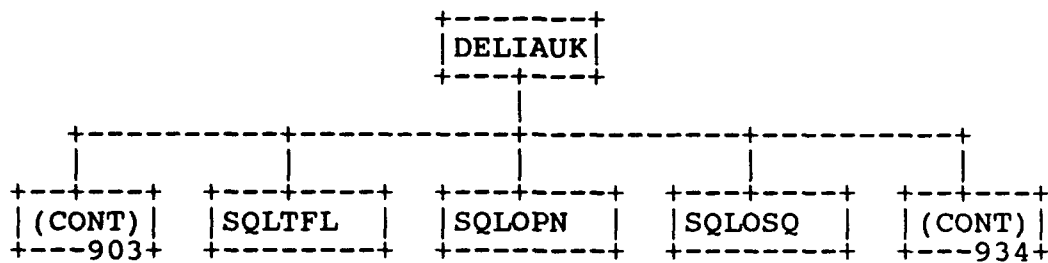
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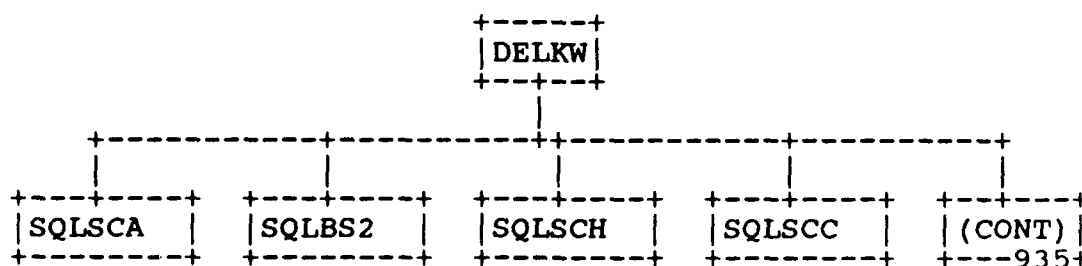
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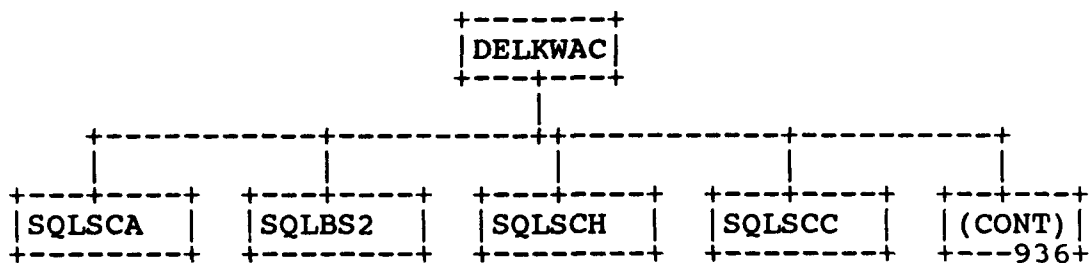
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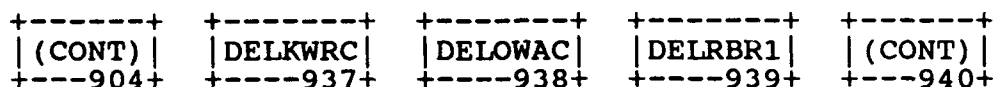
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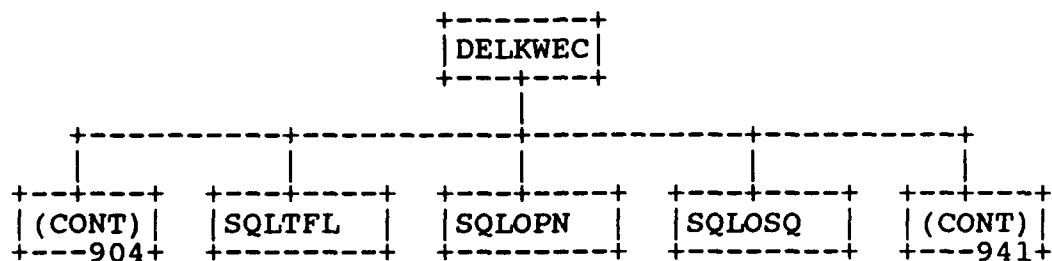
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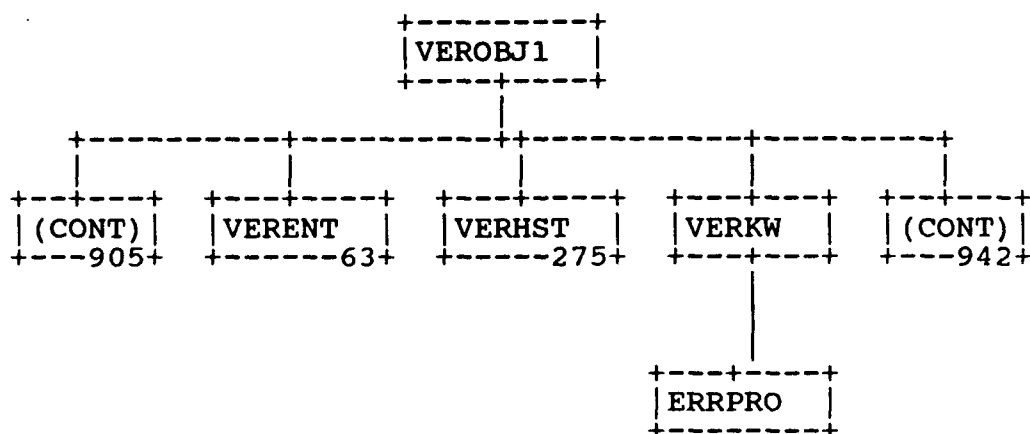
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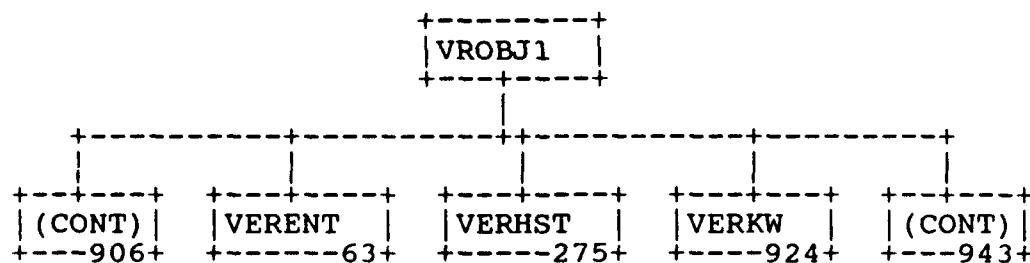
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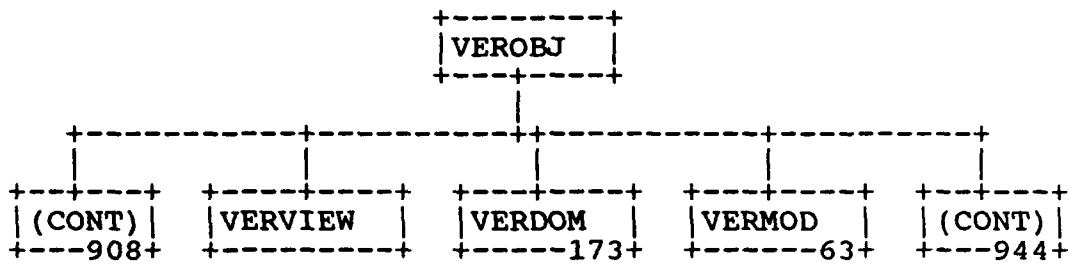
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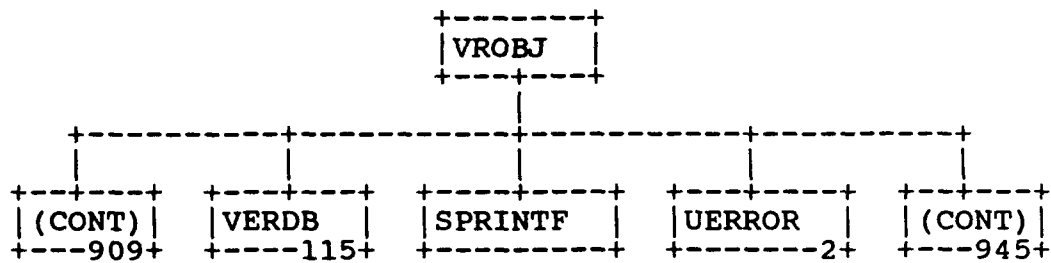
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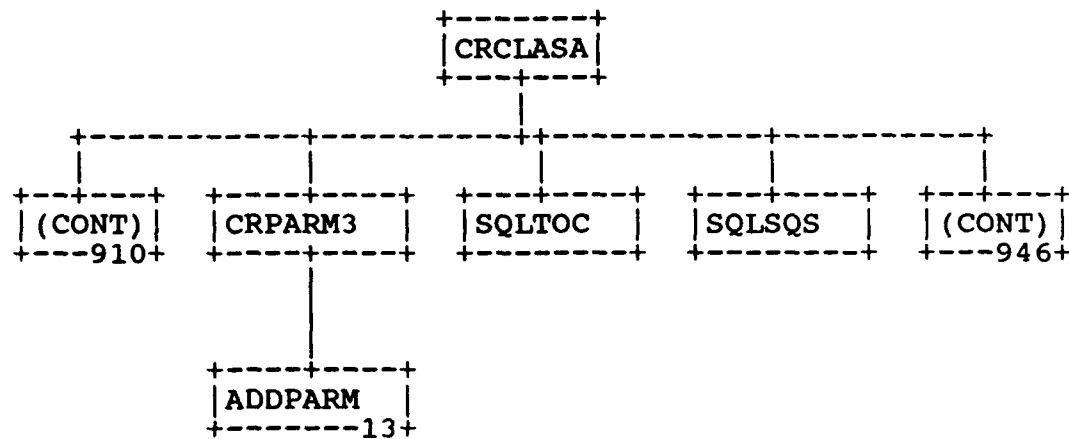
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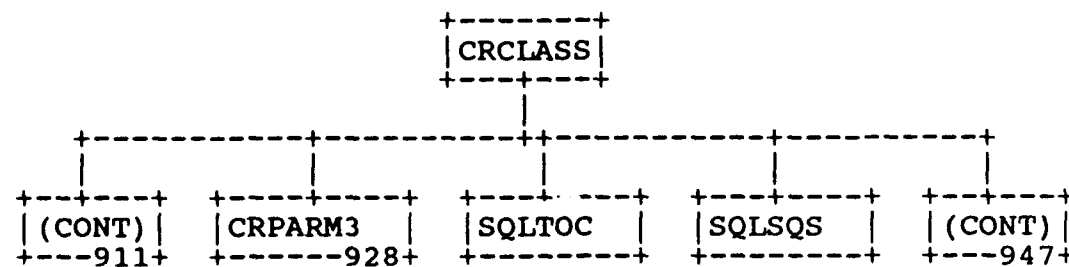
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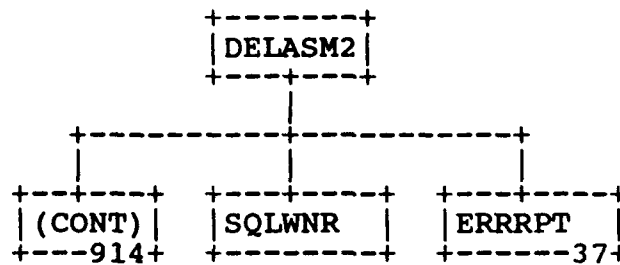
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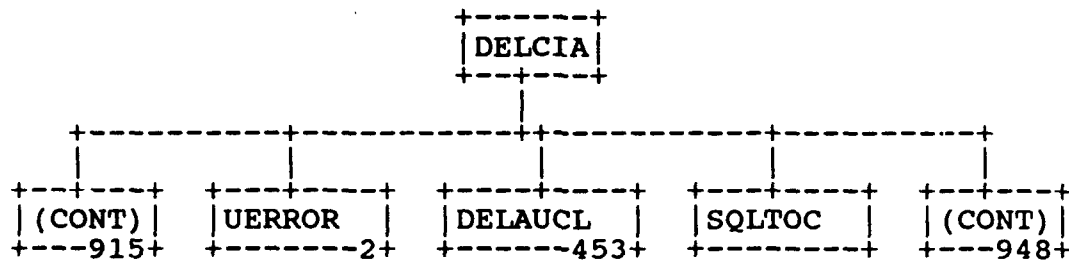
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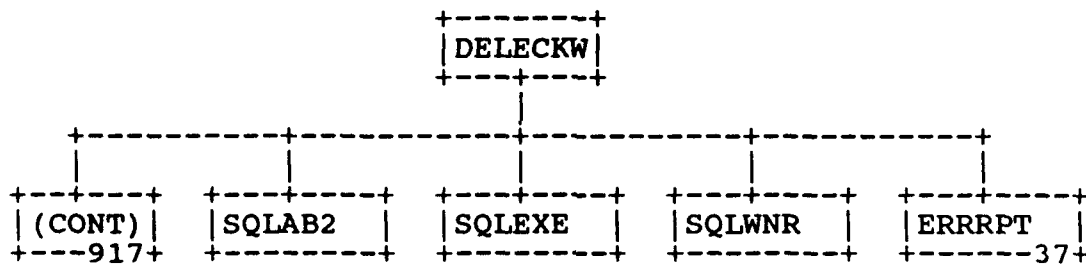
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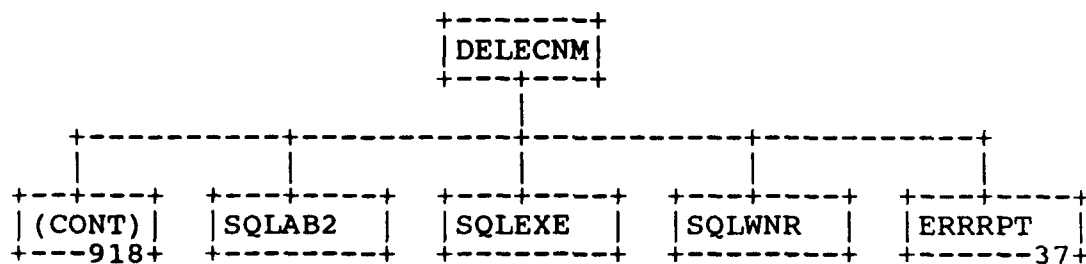
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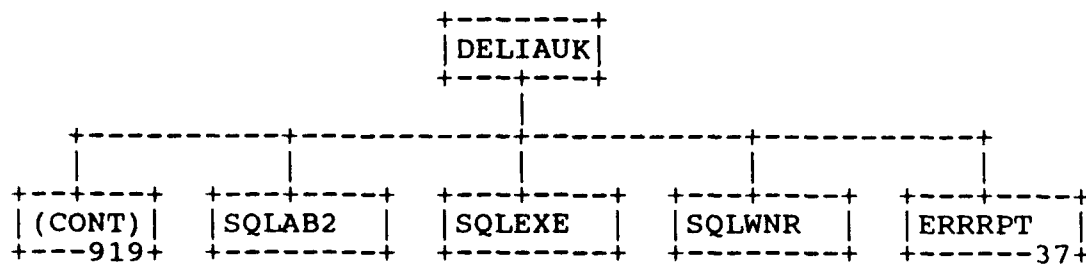
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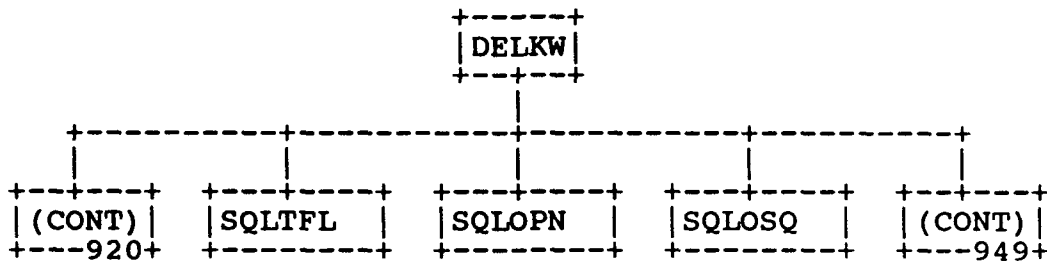
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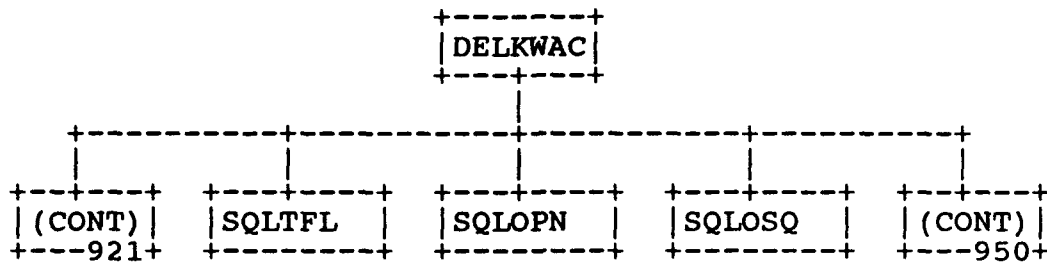
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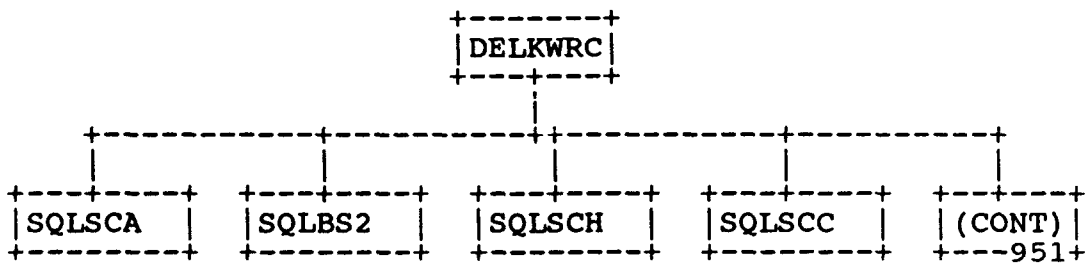
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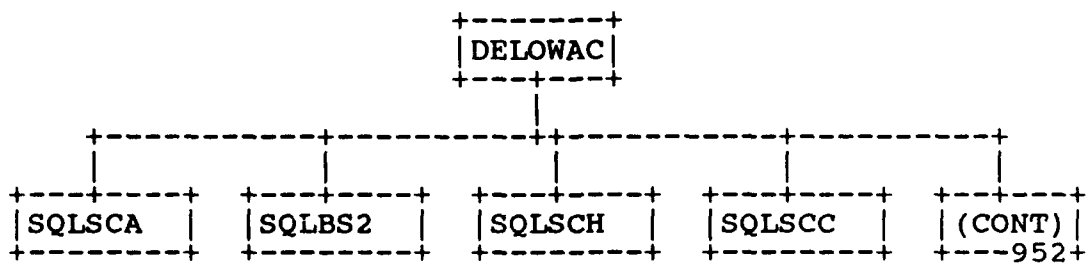
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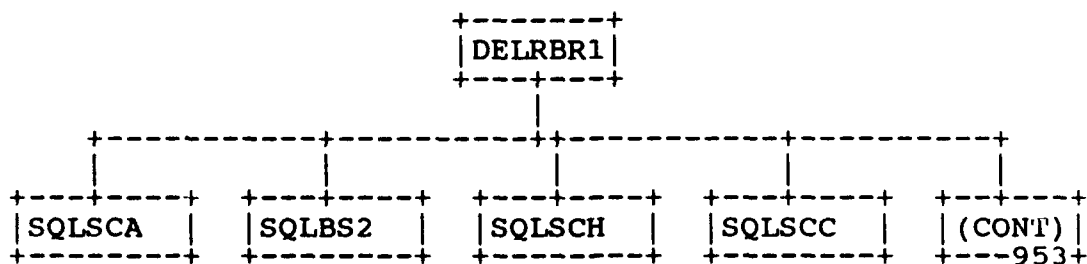
937



938



939



940

(CONT)	DELRBR2	DELRCS	DELSDF1	(CONT)
-922	-954	-955	-956	-957

941

DELKWEC				
(CONT)	SQLAB2	SOLEXE	SQLWNR	ERRRPT
-923				-37

942

VEROBJ1			
(CONT)	VERVIEW	VERDOM	VERMOD
-924		-173	-63

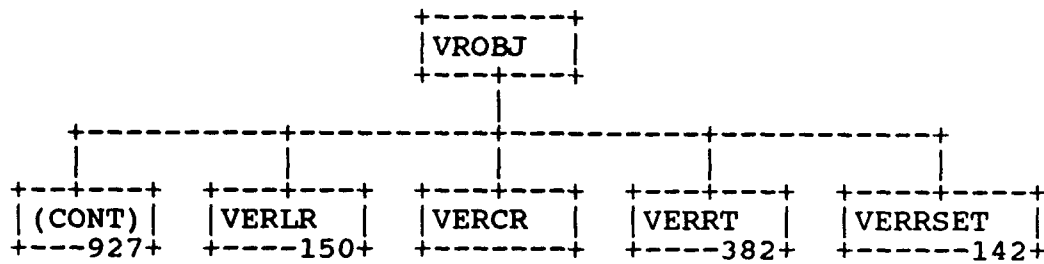
943

VROBJ1			
(CONT)	VERVIEW	VERDOM	VERMOD
-925		-173	-63

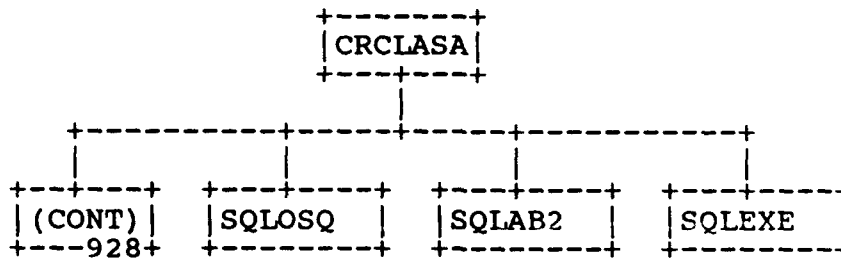
944

VEROBJ				
(CONT)	VERDB	SPRINTF	UERROR	(CONT)
-926	-115		-2	-958

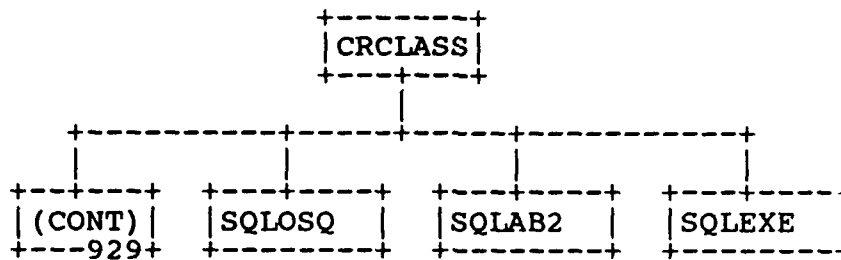
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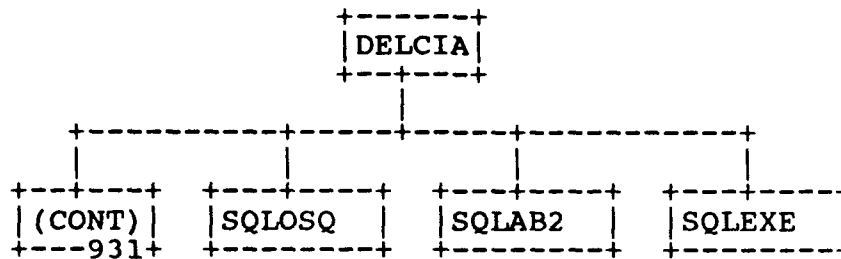
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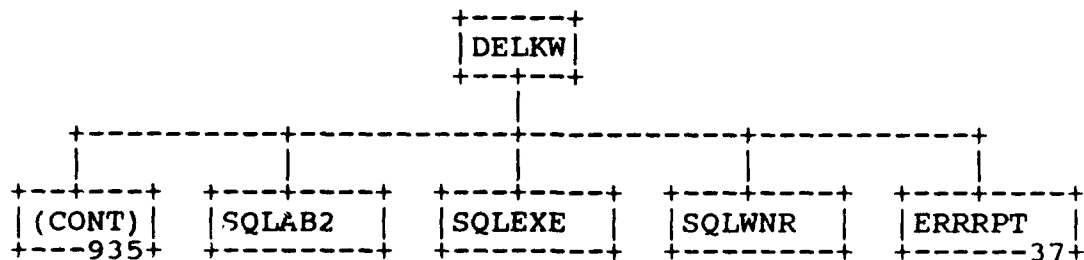
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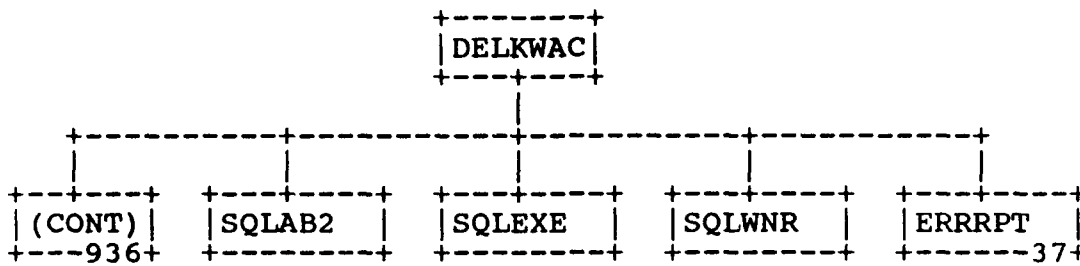
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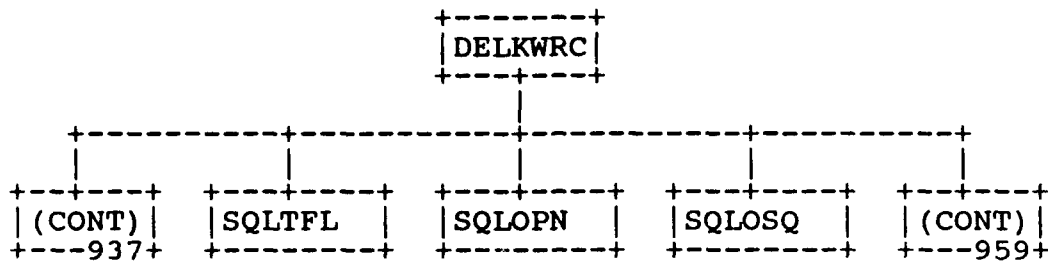
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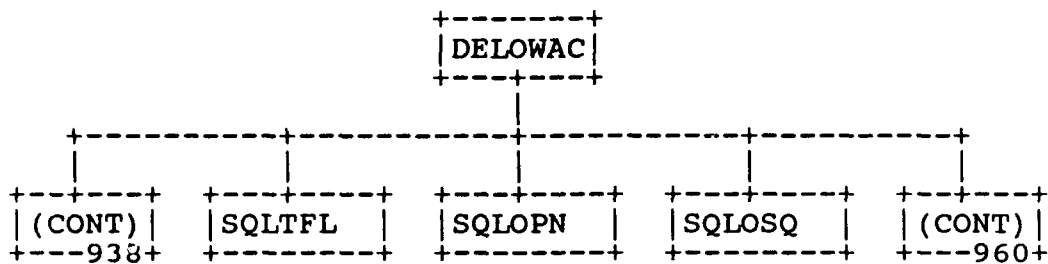
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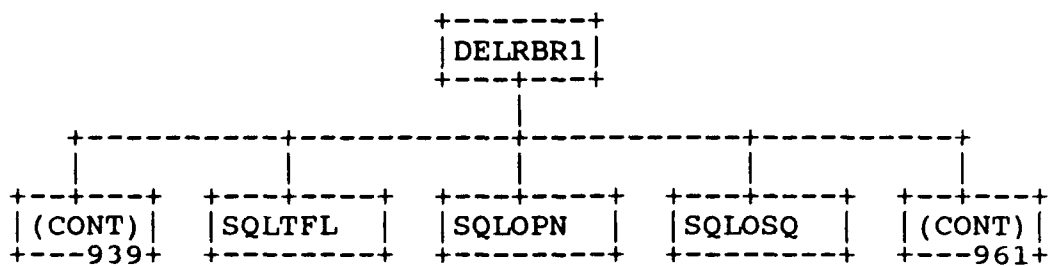
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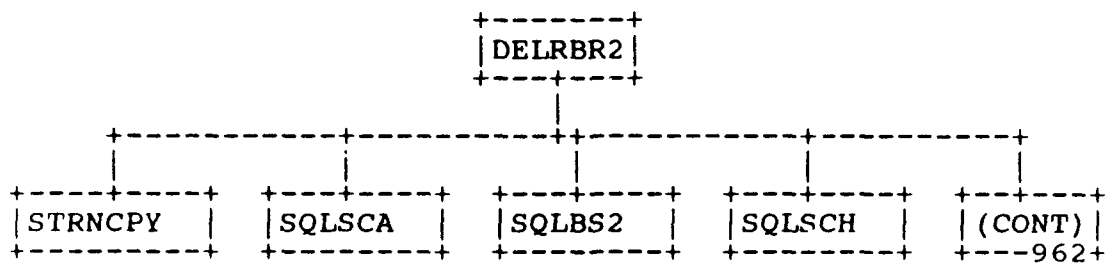
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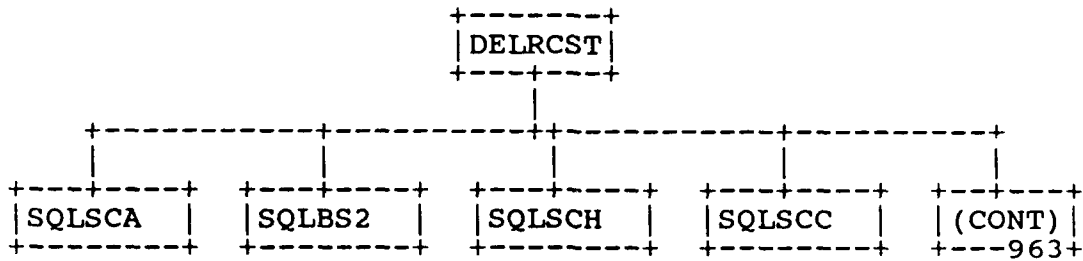
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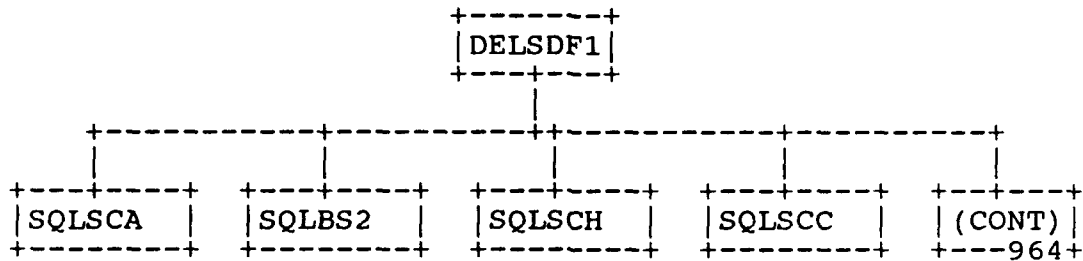
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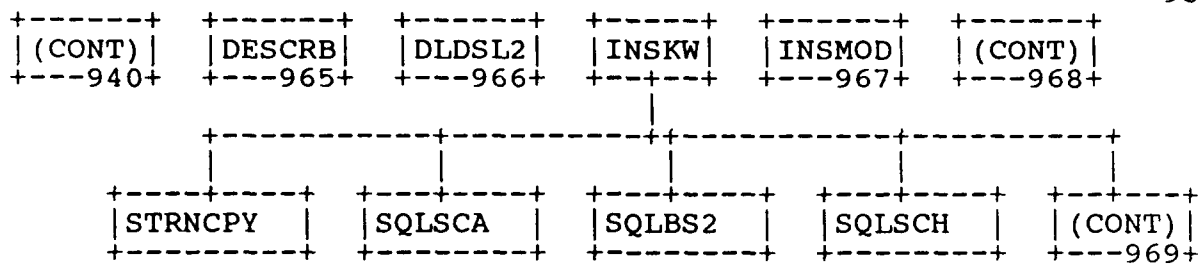
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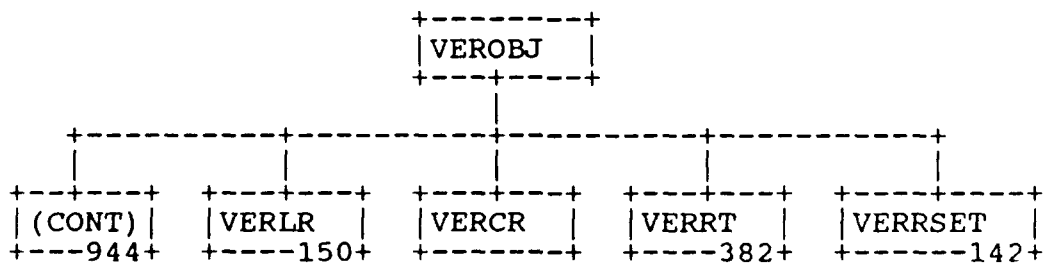
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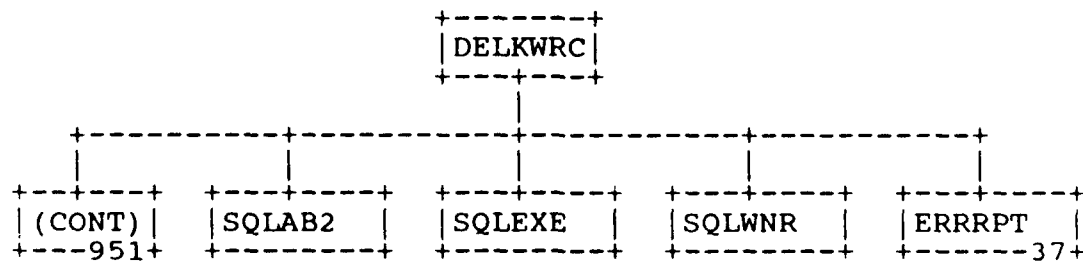
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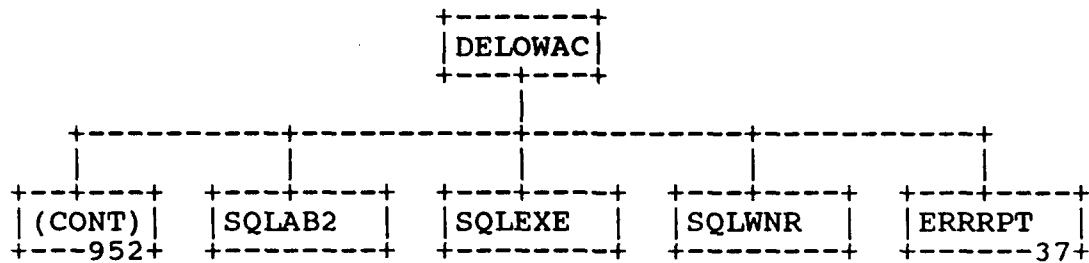
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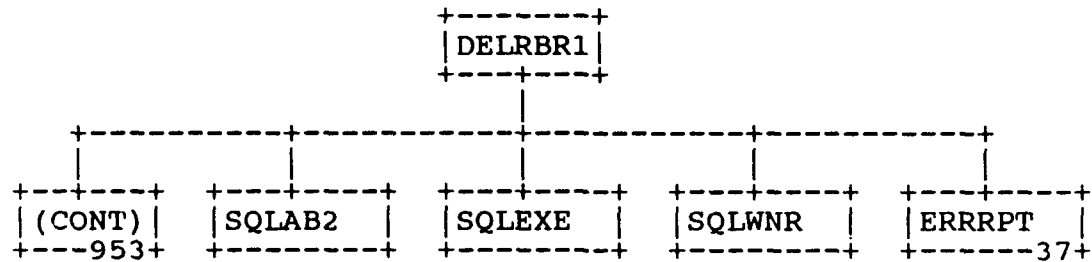
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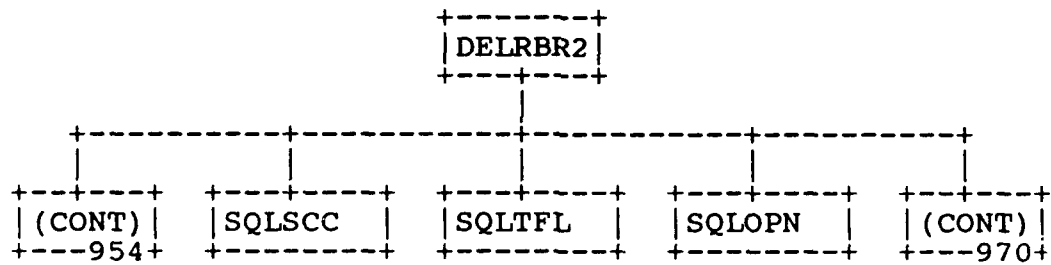
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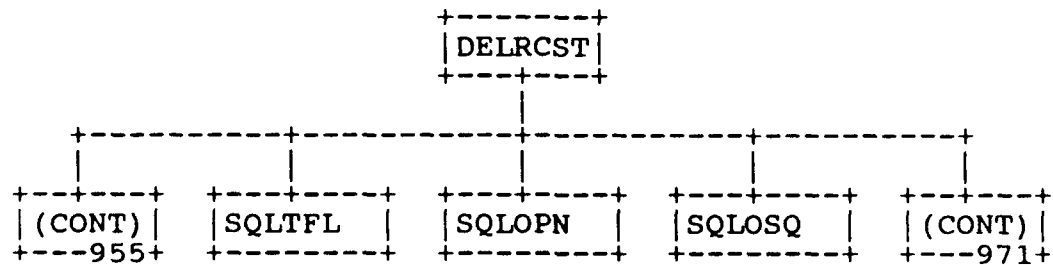
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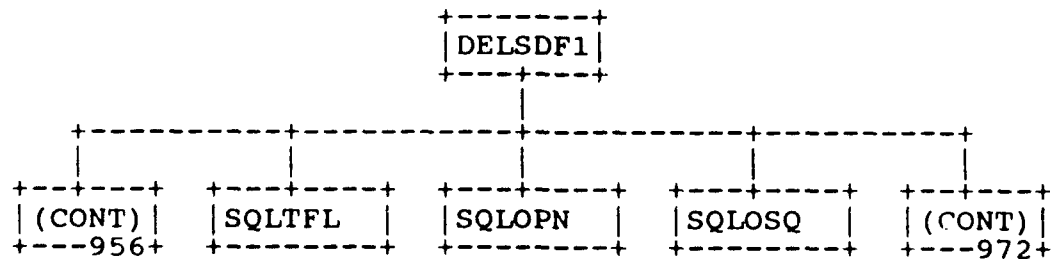
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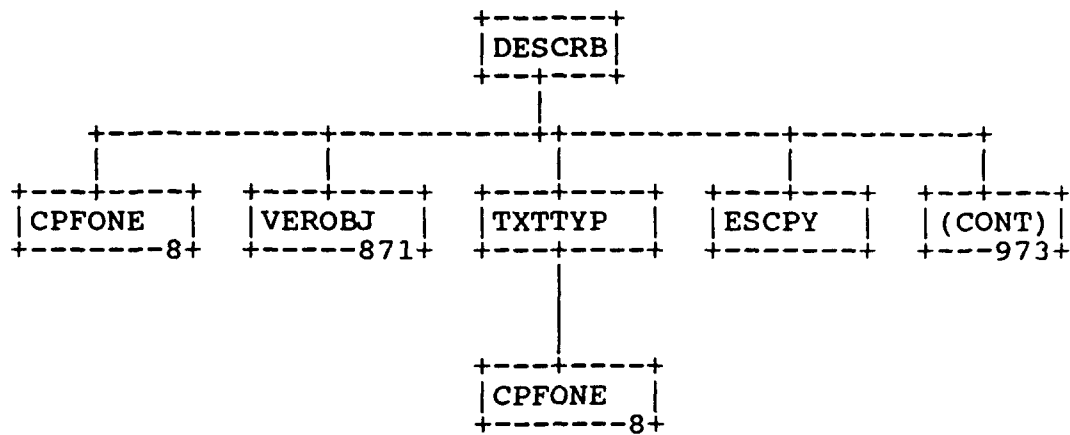
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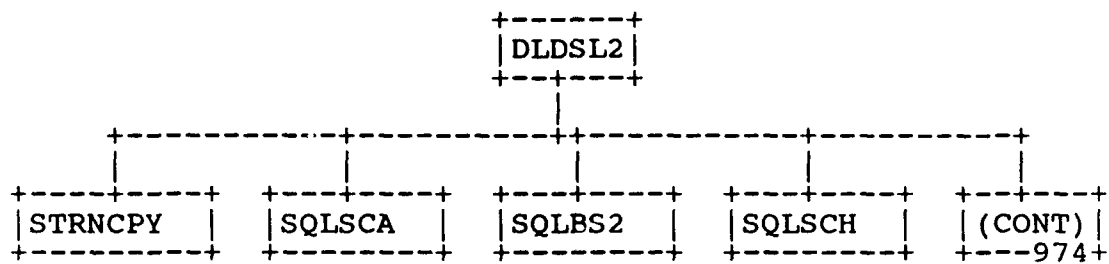
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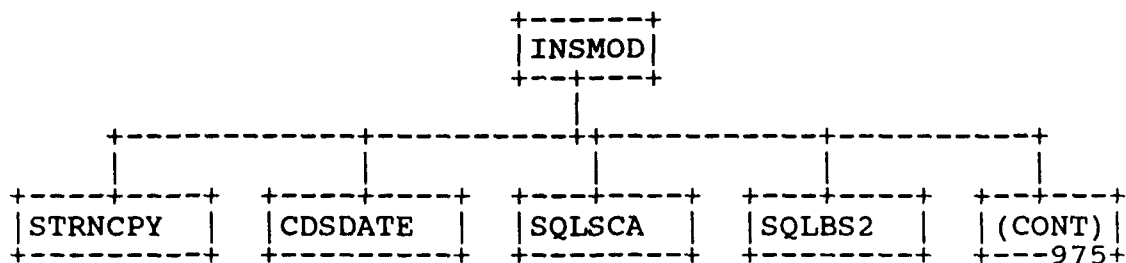
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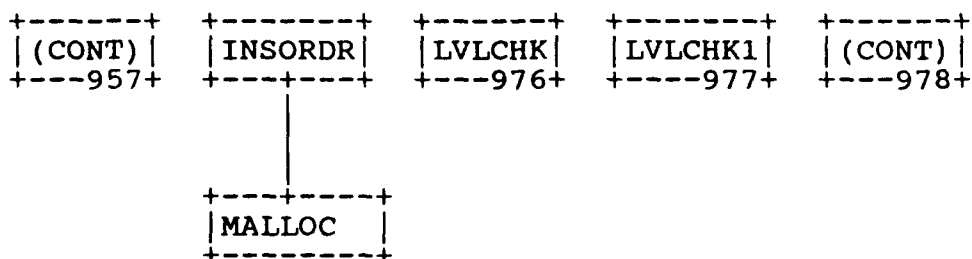
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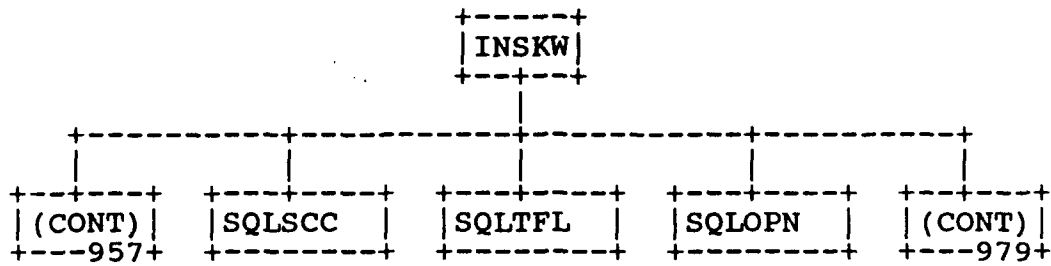
967



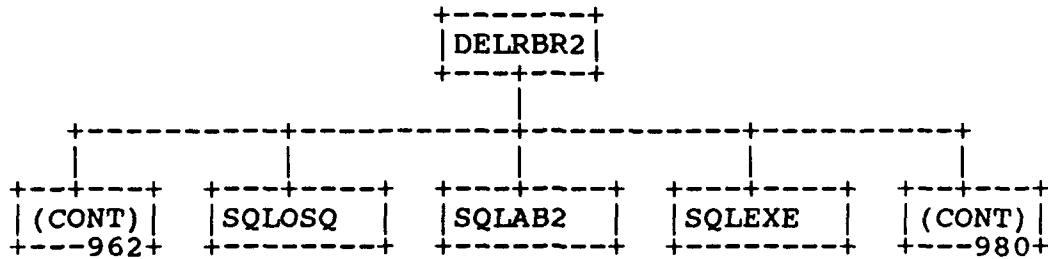
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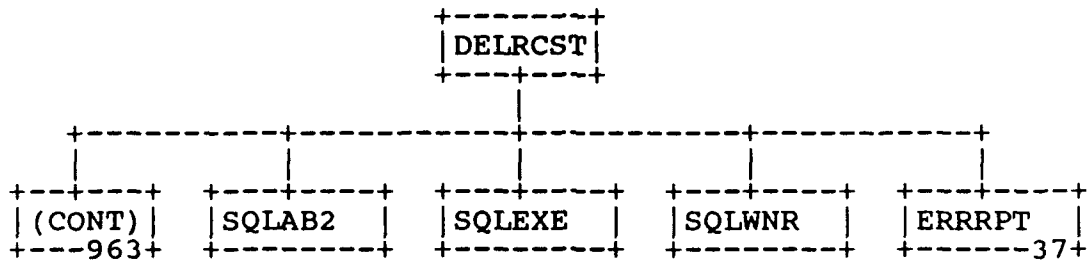
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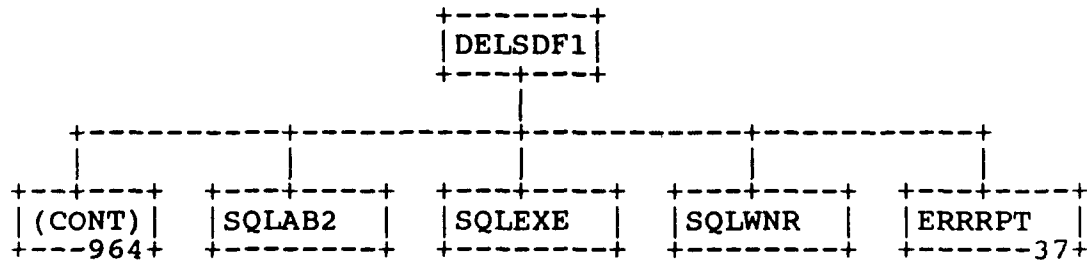
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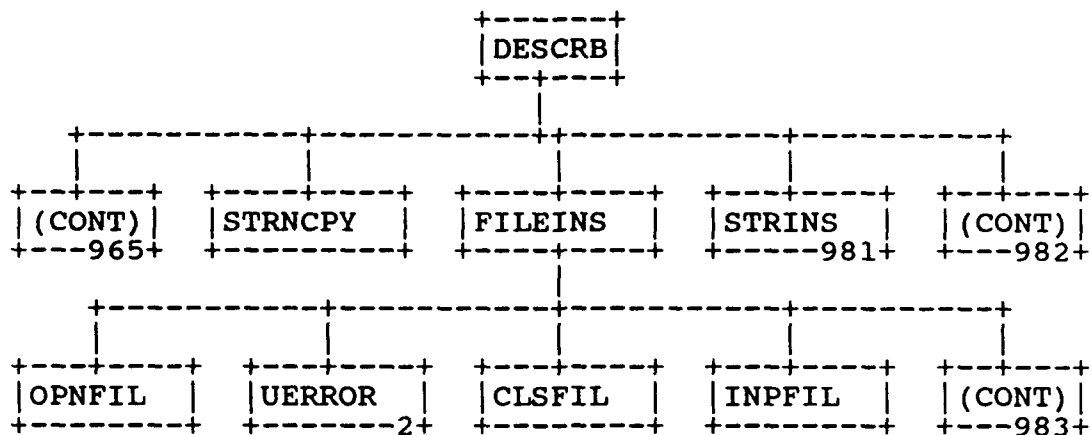
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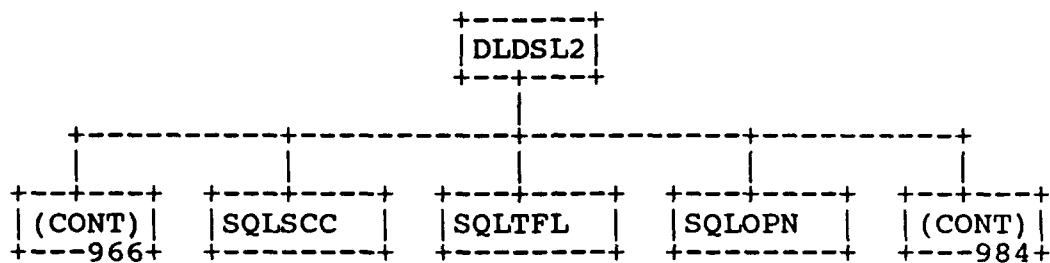
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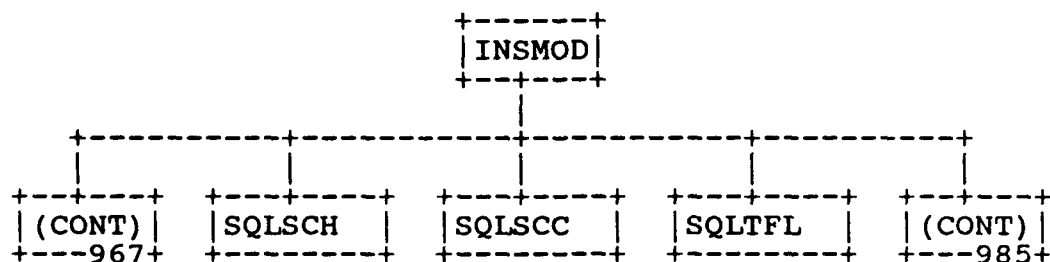
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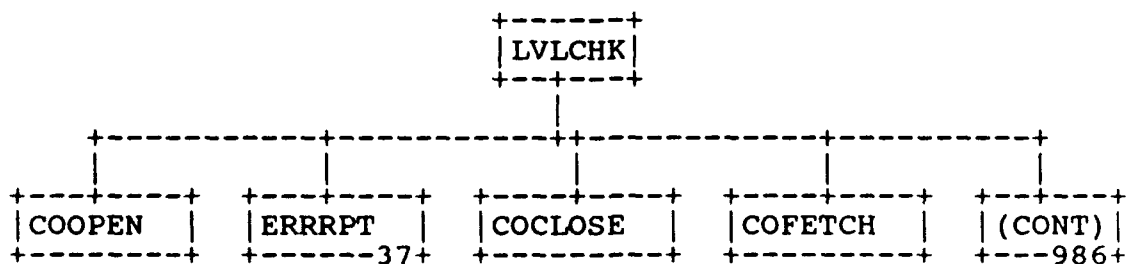
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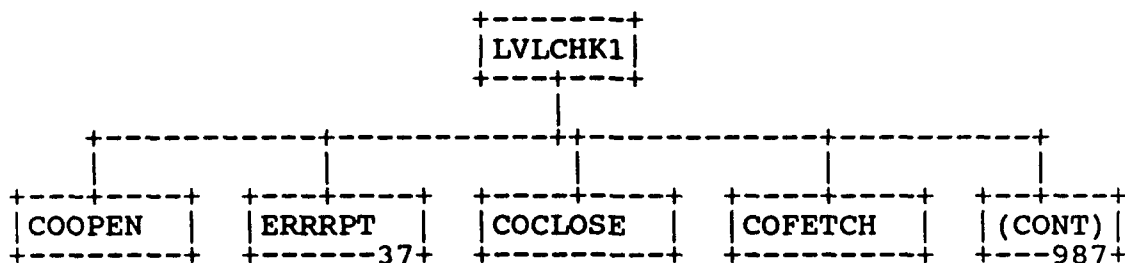
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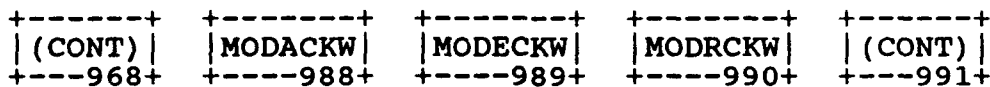
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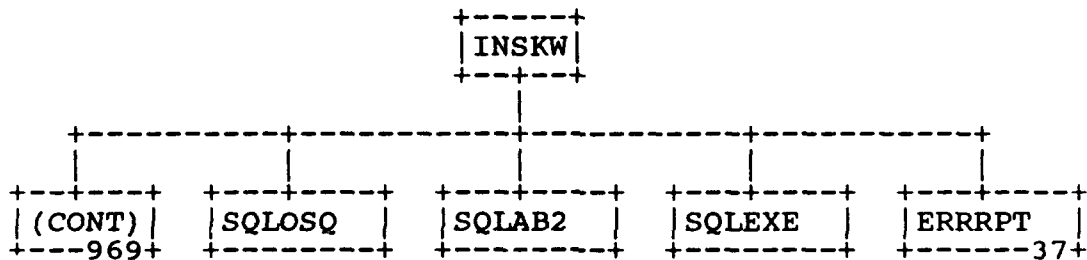
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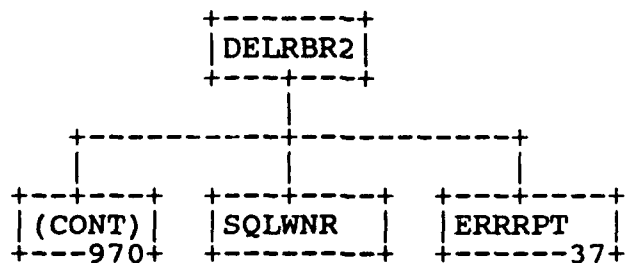
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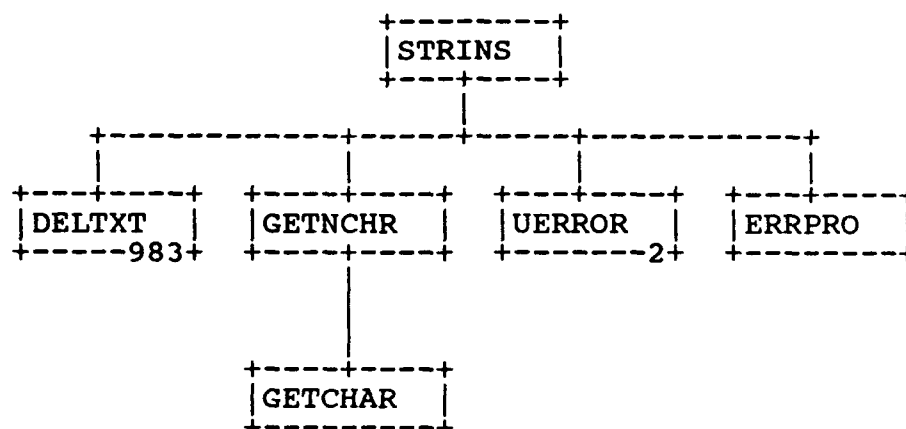
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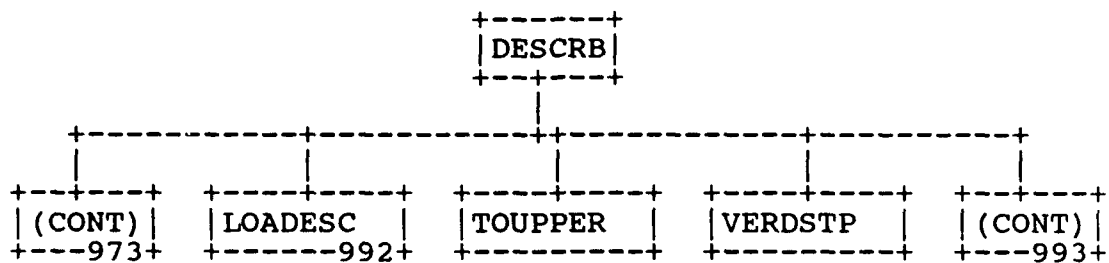
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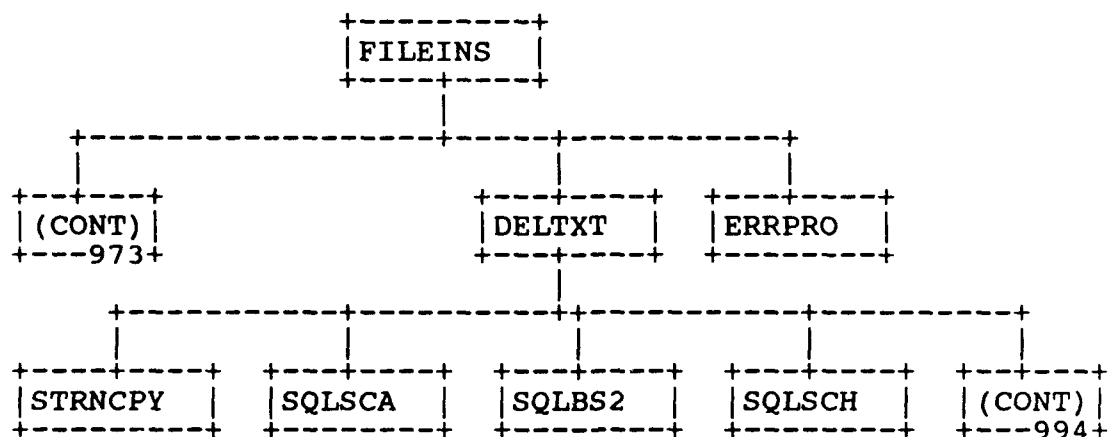
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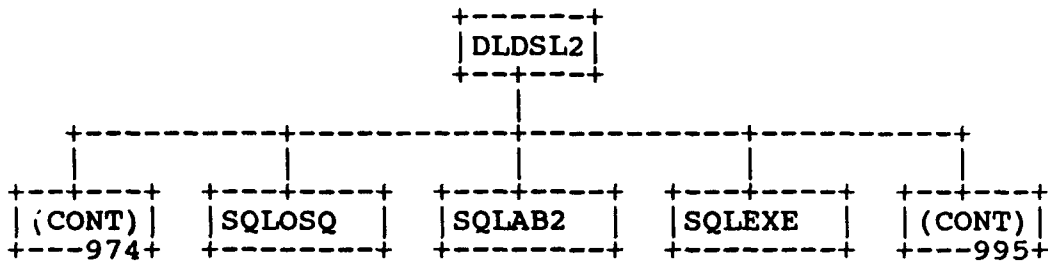
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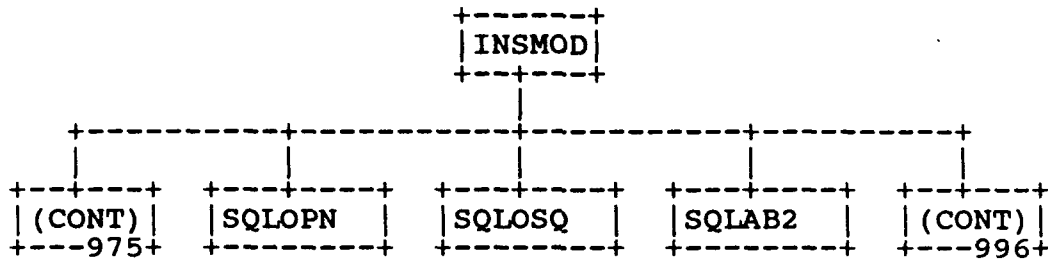
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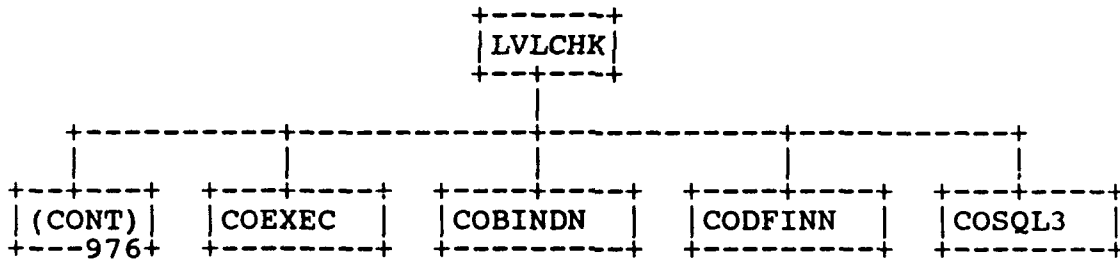
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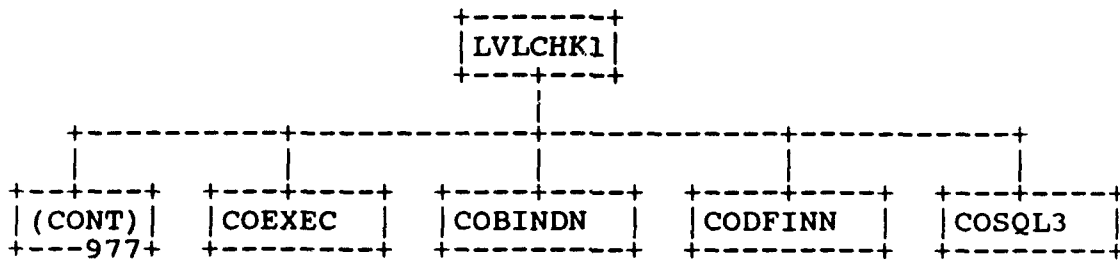
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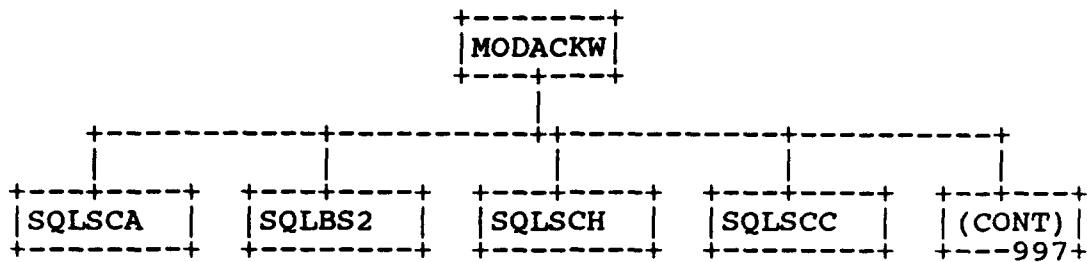
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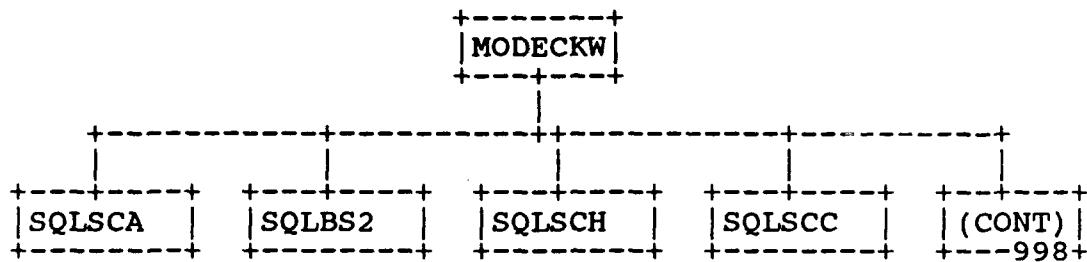
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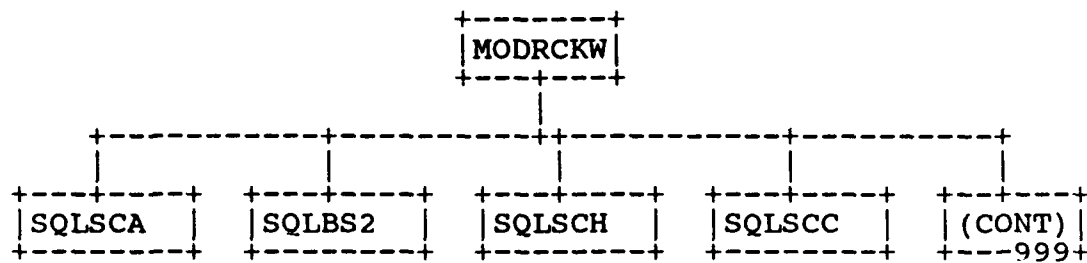
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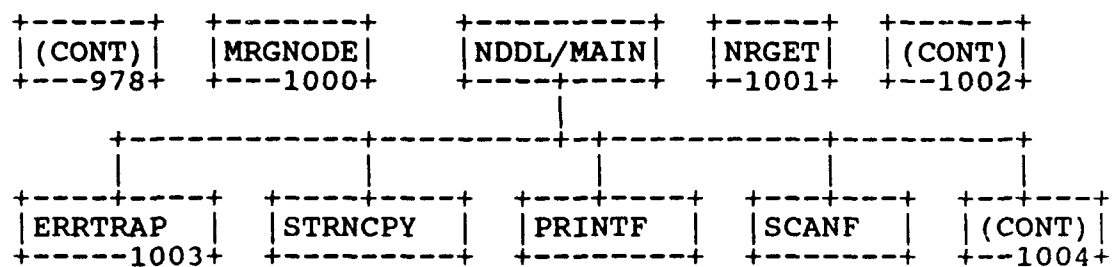
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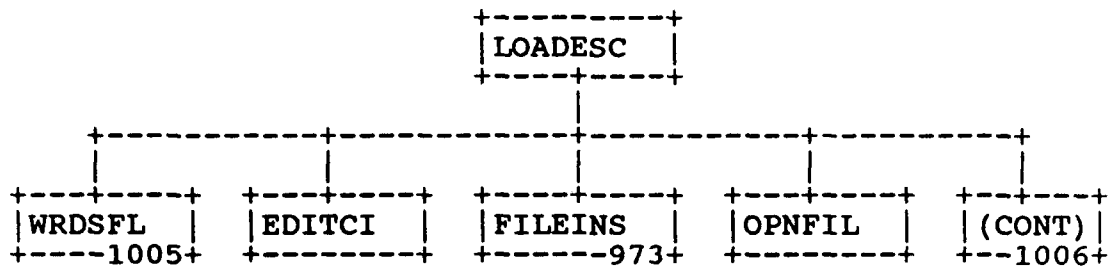
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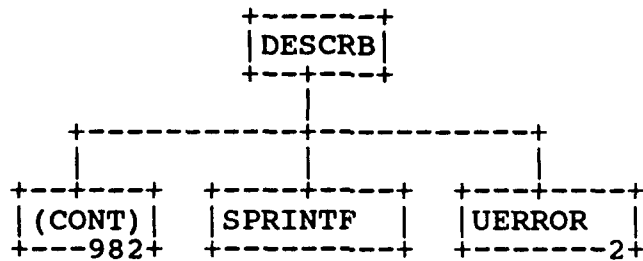
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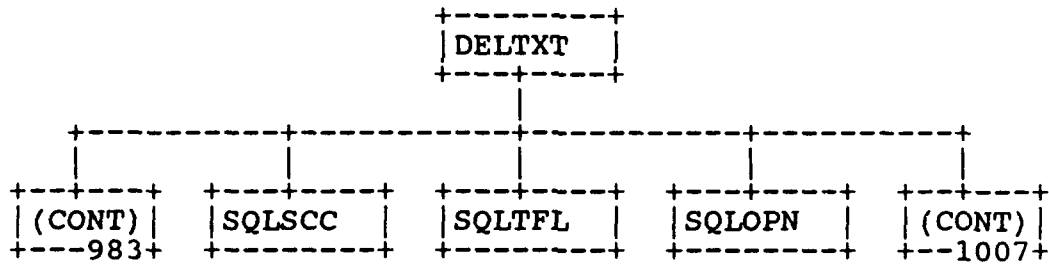
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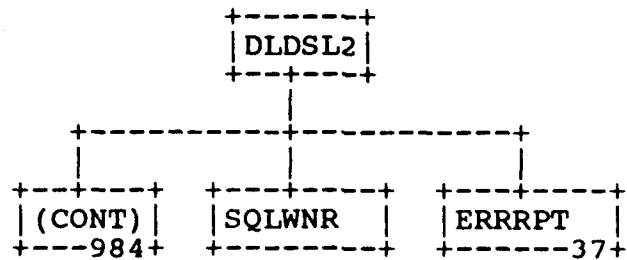
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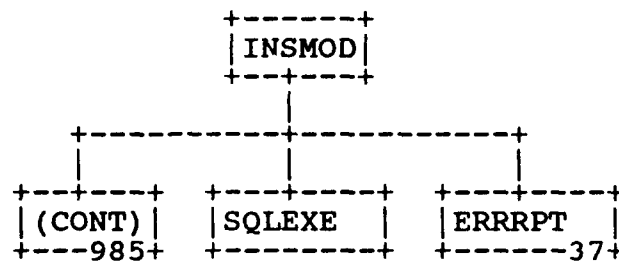
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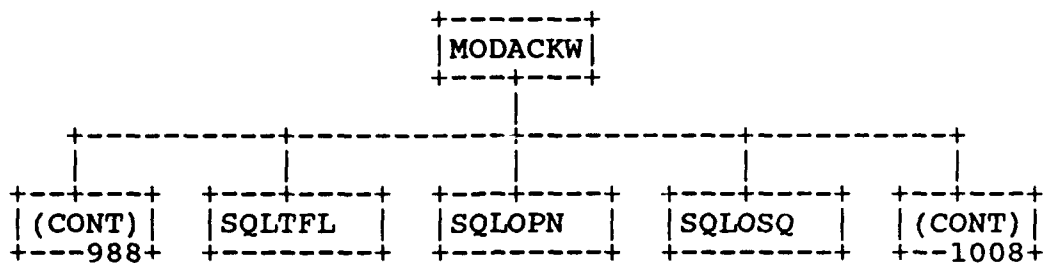
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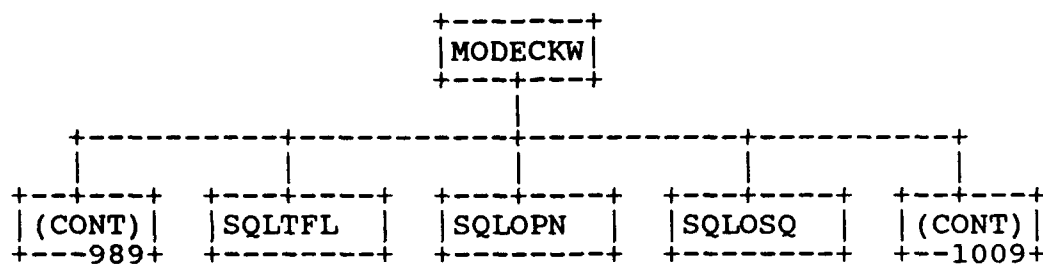
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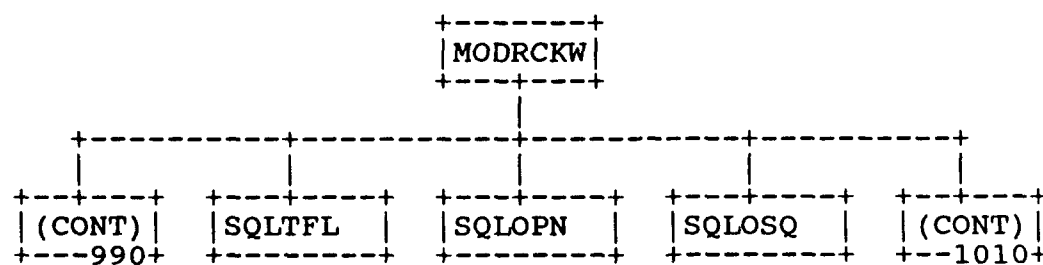
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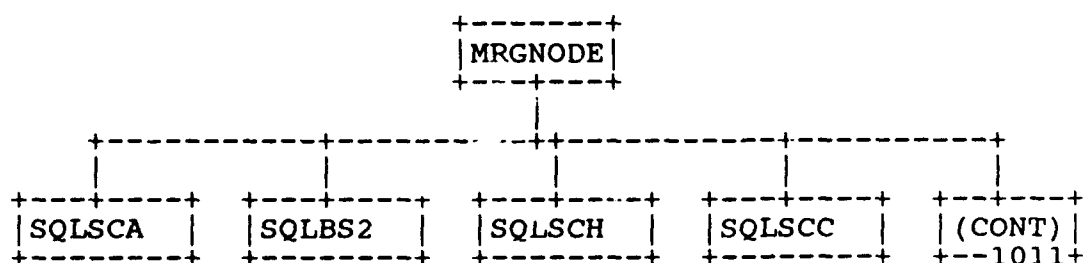
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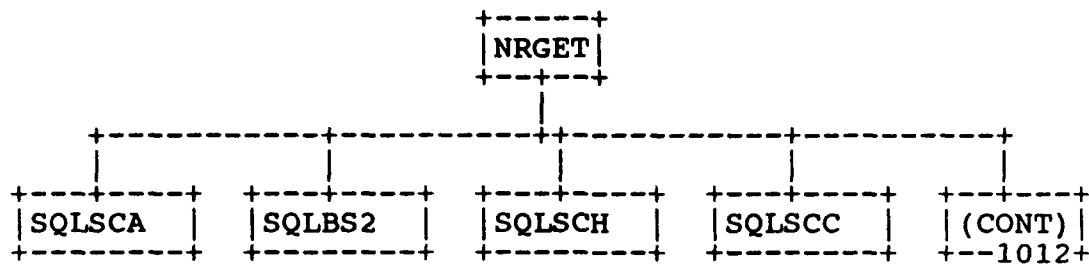
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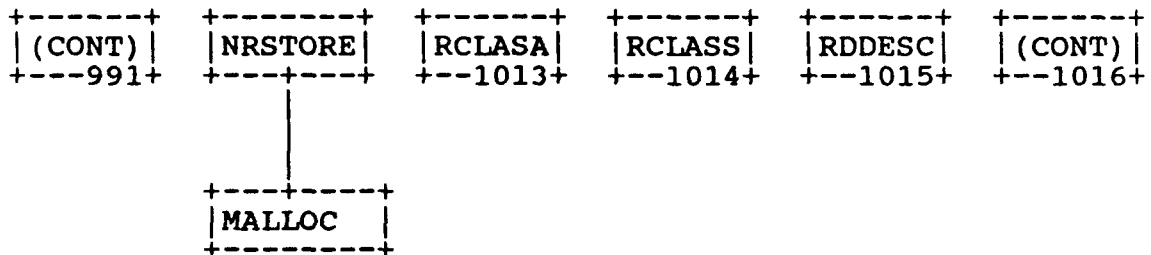
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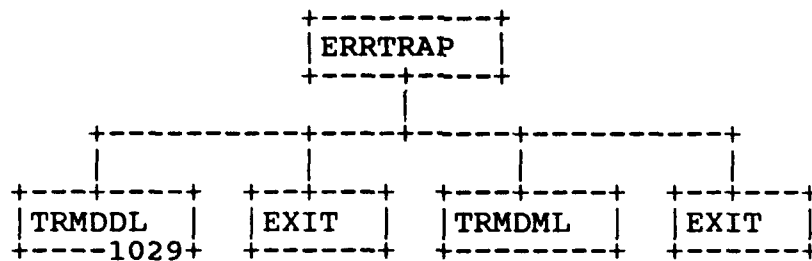
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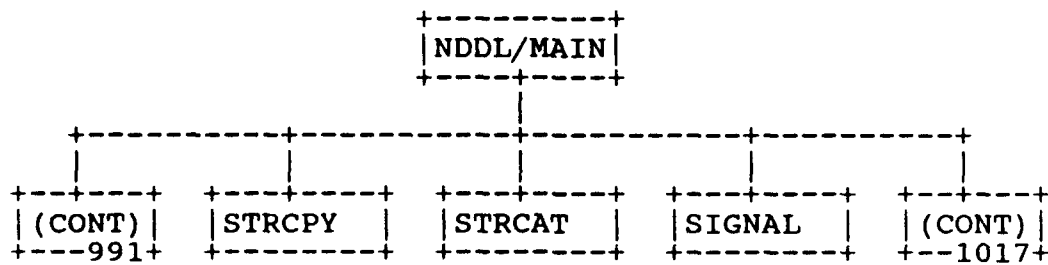
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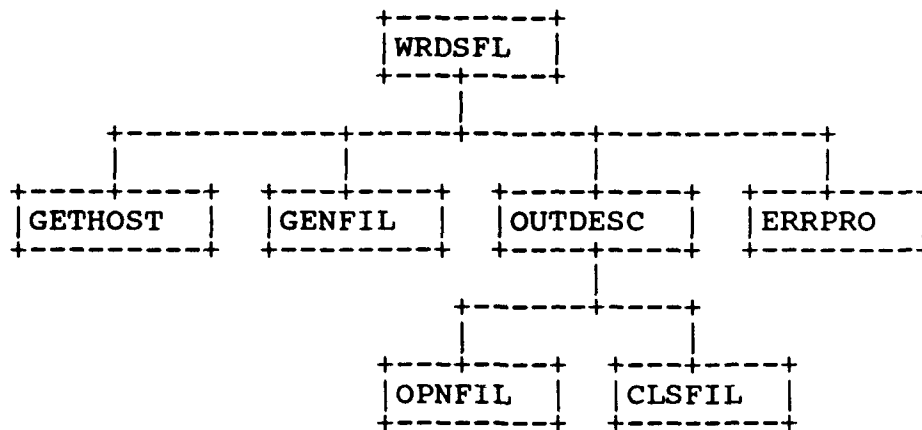
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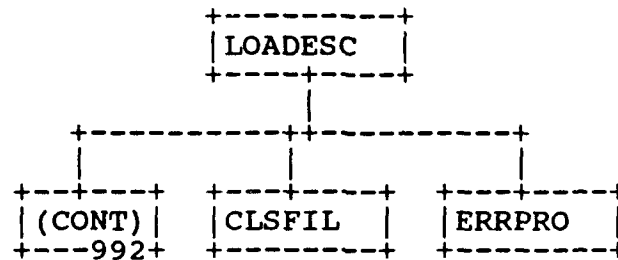
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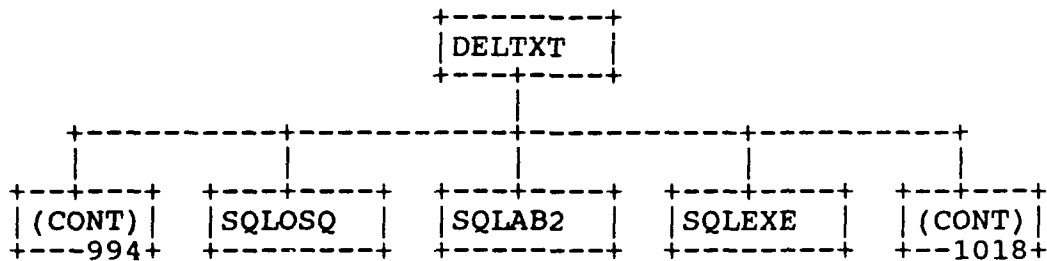
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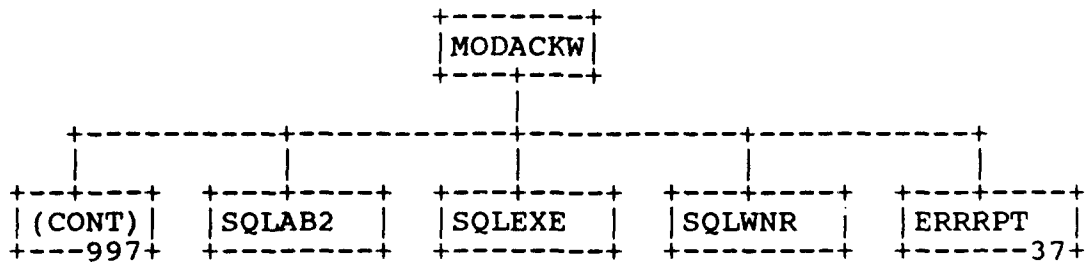
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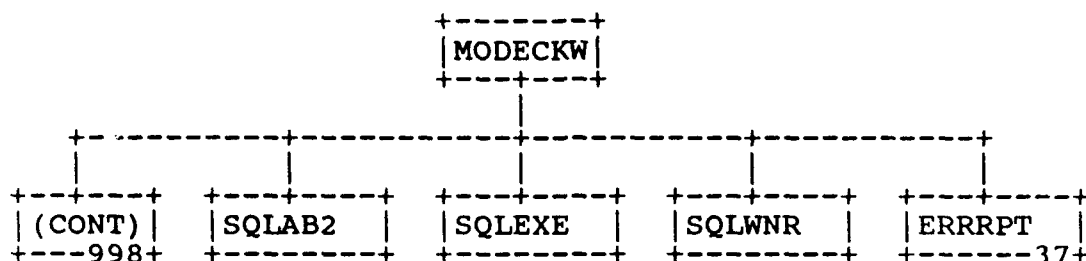
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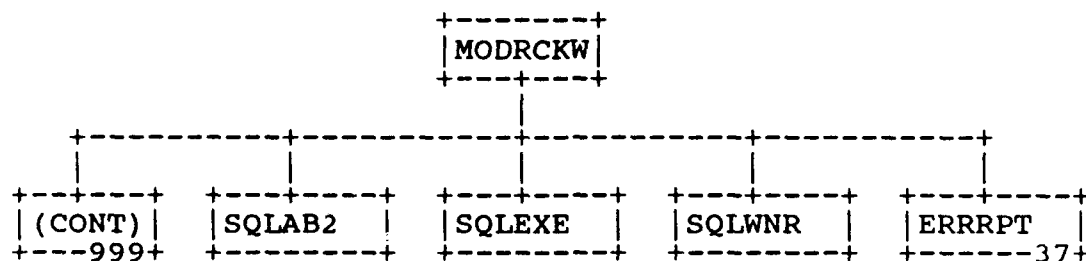
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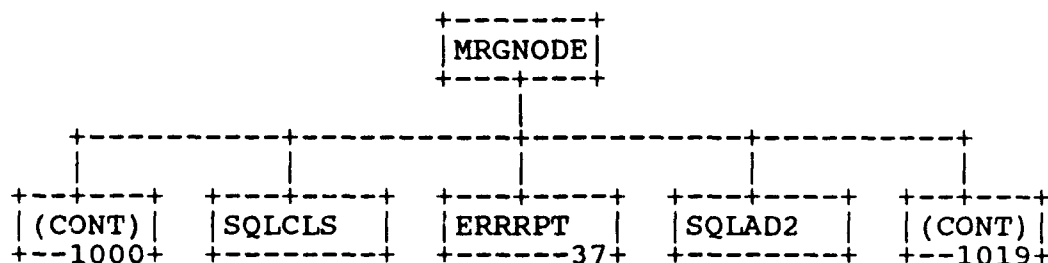
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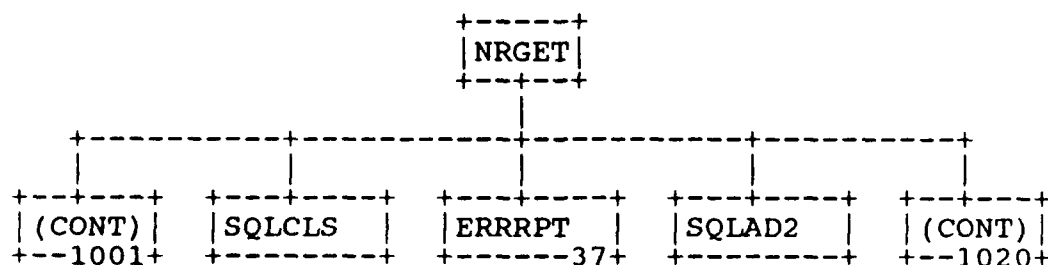
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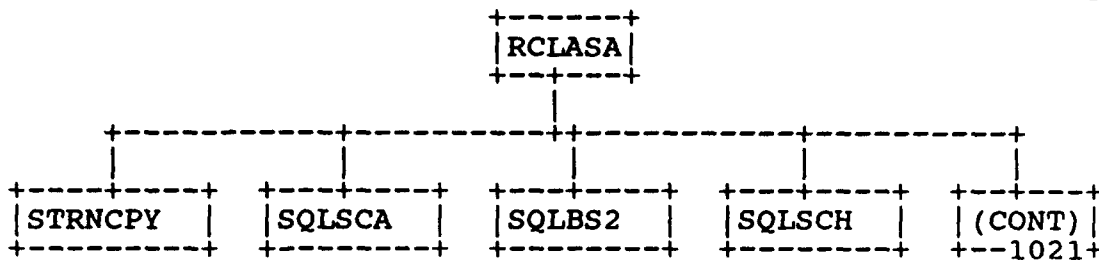
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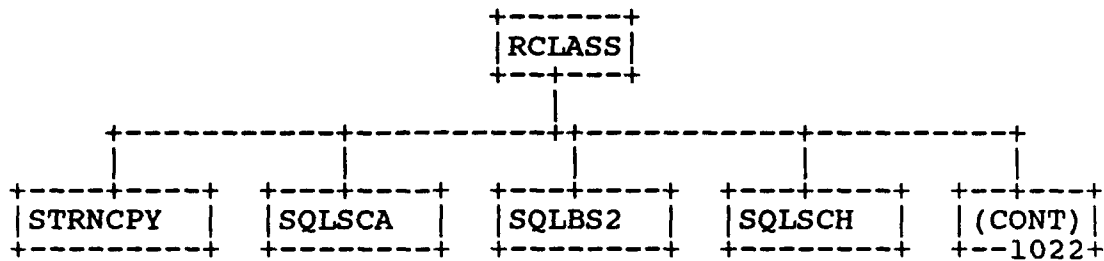
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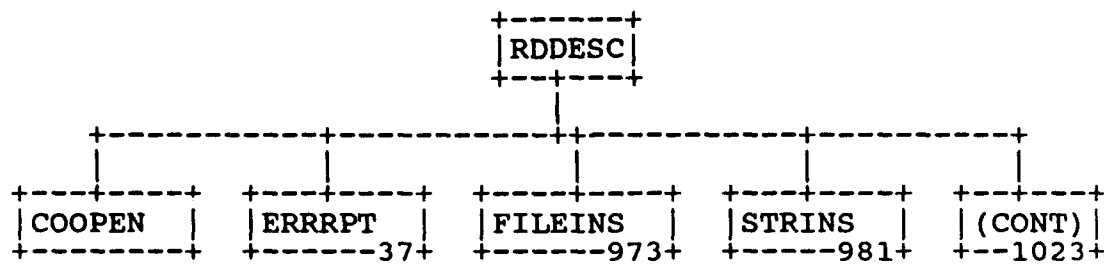
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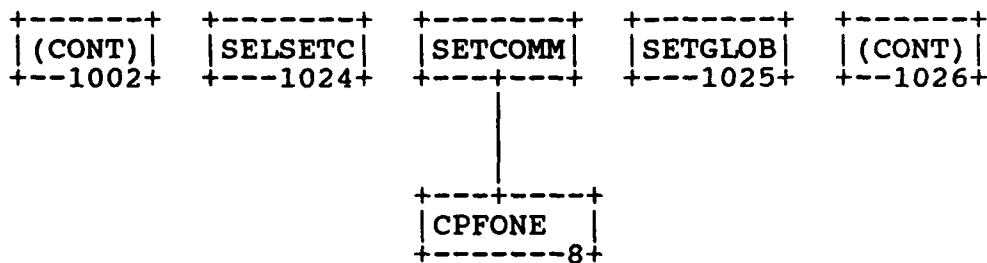
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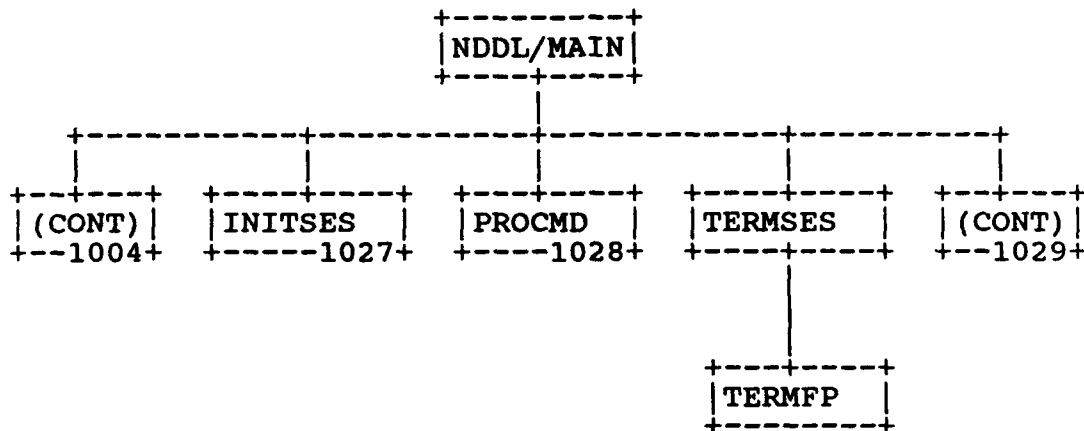
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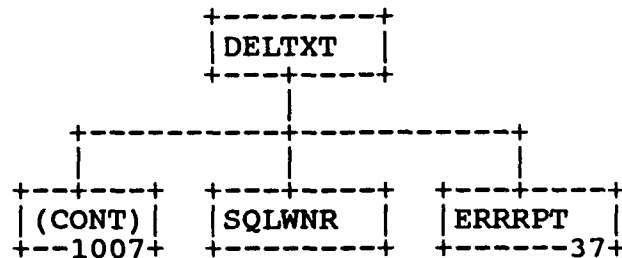
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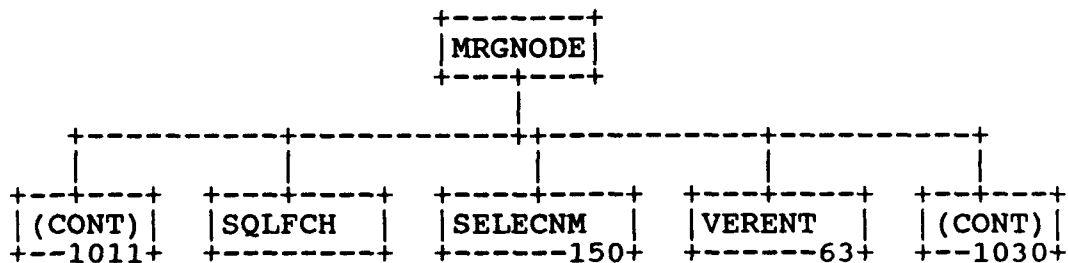
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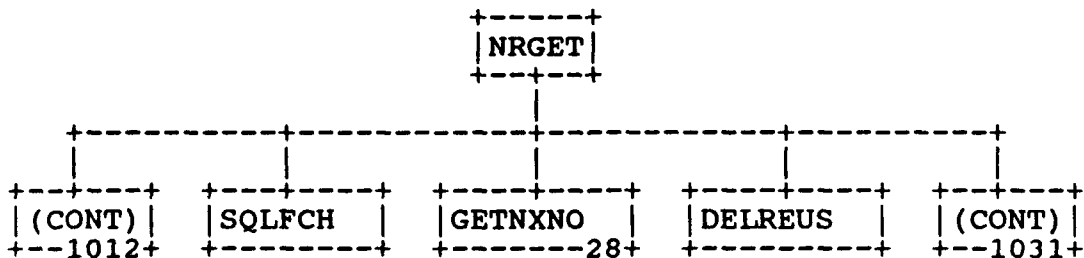
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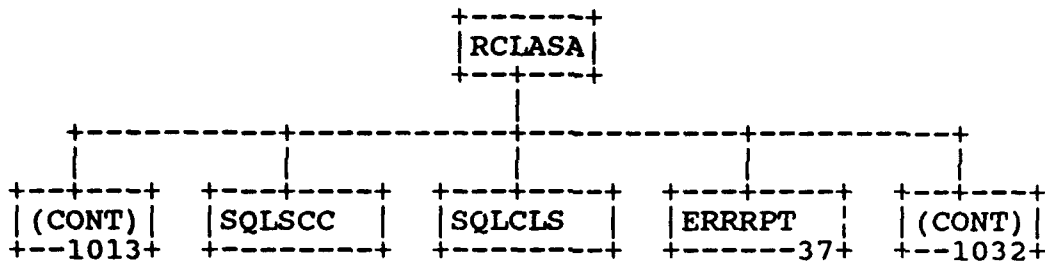
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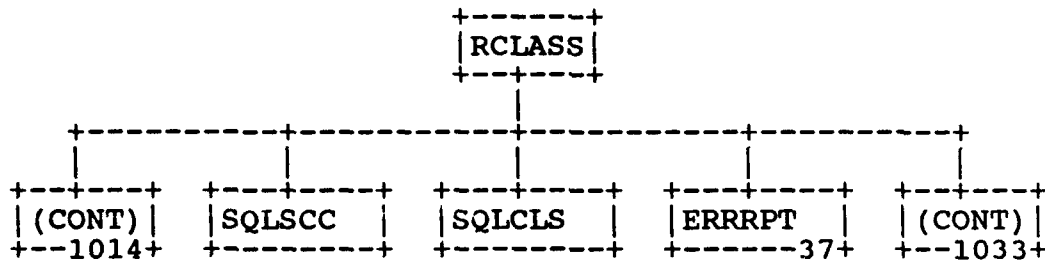
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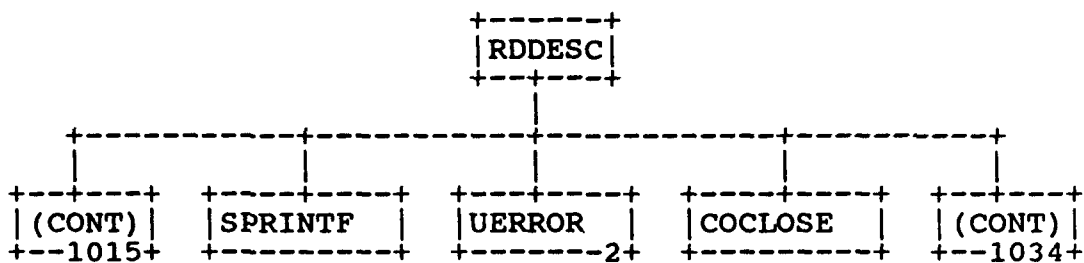
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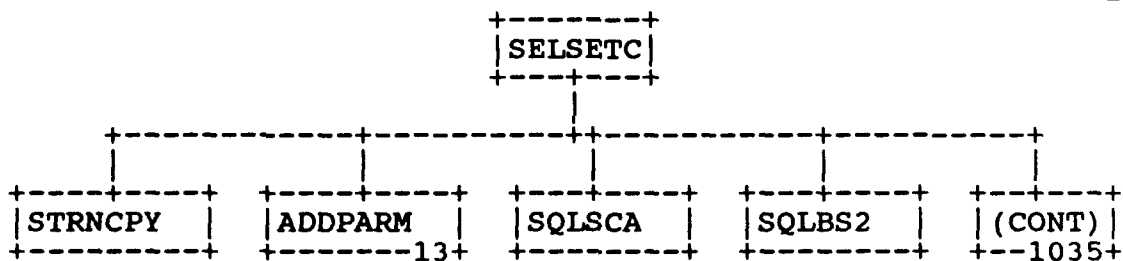
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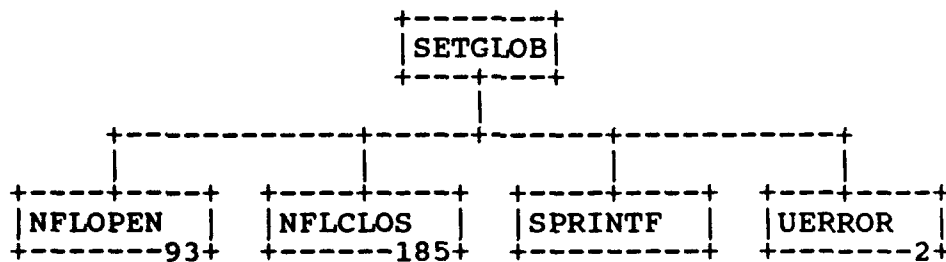
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1024



1025



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+-----+ +-----+ +-----+ +-----+ +-----+
| (CONT) | | UINDDL/MAIN | | UPDACNM | | UPDAPP | | (CONT) |
+---1016+ +---1036+ +---1037+ +---1038+ +---1039+

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1026

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+-----+
| INITSES |
+-----+
|
+-----+
|
+-----+ +-----+ +-----+ +-----+ +-----+
| HOOK_FORM | | STRNCPY | | VERTYP | | STRNCMP | | (CONT) |
+---1040+ +---1041+ +---1042+ +---1043+ +---1044+

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1027

```

+-----+
| PROCMD |
+-----+
|
+-----+
|
+-----+ +-----+ +-----+ +-----+
| RESETFN | | COMMITMN | | COMMITFN | | (CONT) |
+---1045+ +---1046+ +---1047+ +---1048+

```

1028

```

+-----+
| NDDL/MAIN |
+-----+
|
+-----+
|
+-----+ +-----+ +-----+
| (CONT) | | TRMDDL | | EXIT |
+---1017+ +---1018+ +---1019+
|
+-----+ +-----+
| CDS01 | | ERRPRO |
+---1020+ +---1021+

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1029

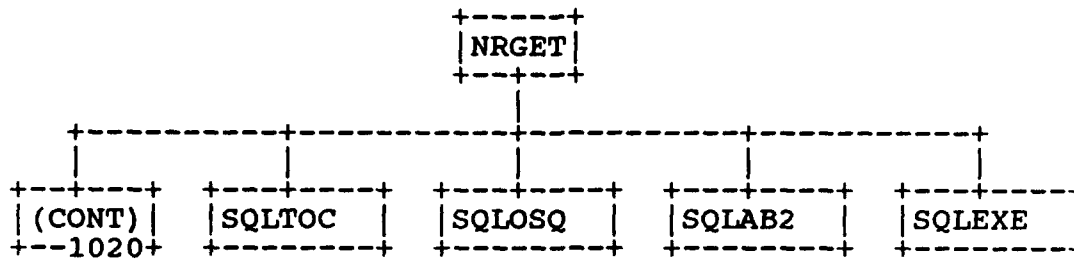
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+-----+
| MRGNODE |
+-----+
|
+-----+
|
+-----+ +-----+ +-----+ +-----+ +-----+
| (CONT) | | GENENT1 | | GENALTE | | SPRINTT | | (CONT) |
+---1019+ +---149+ +---182+ +---183+ +---1043+

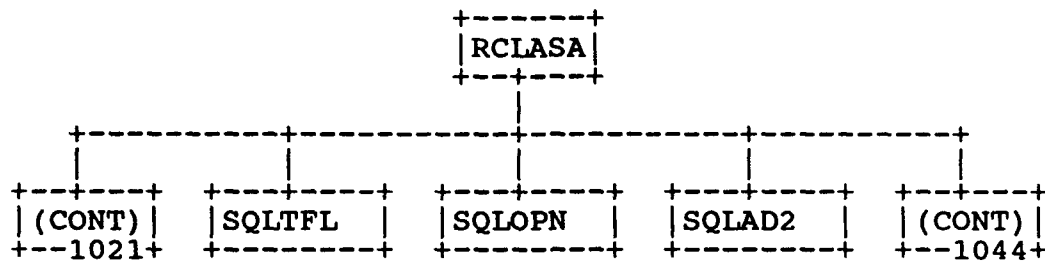
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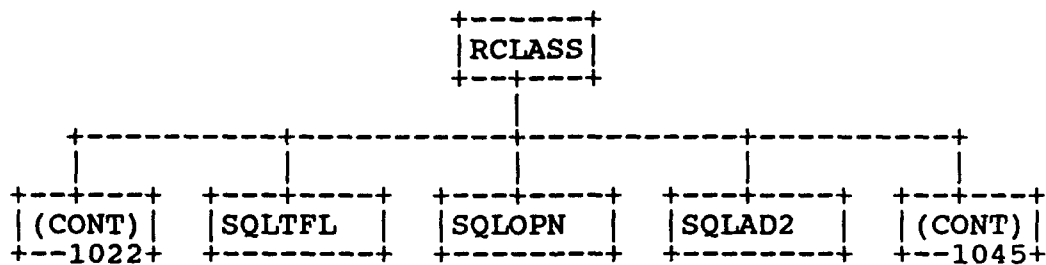
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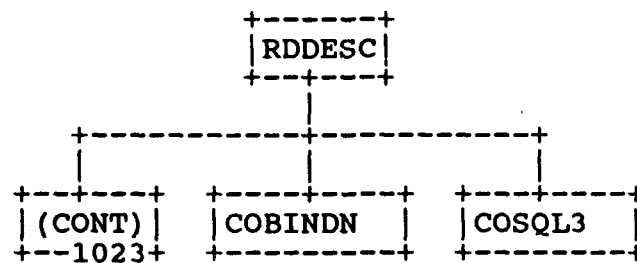
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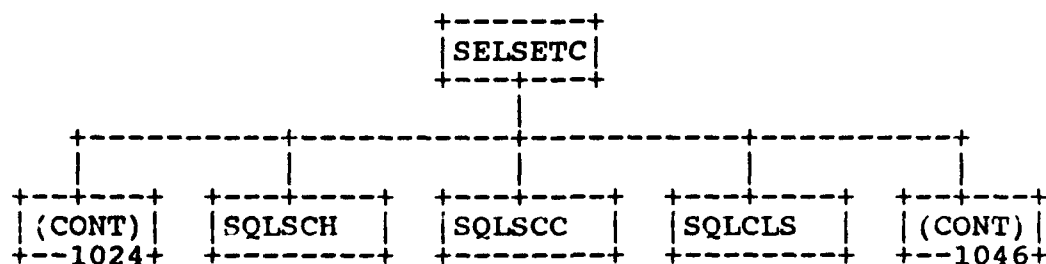
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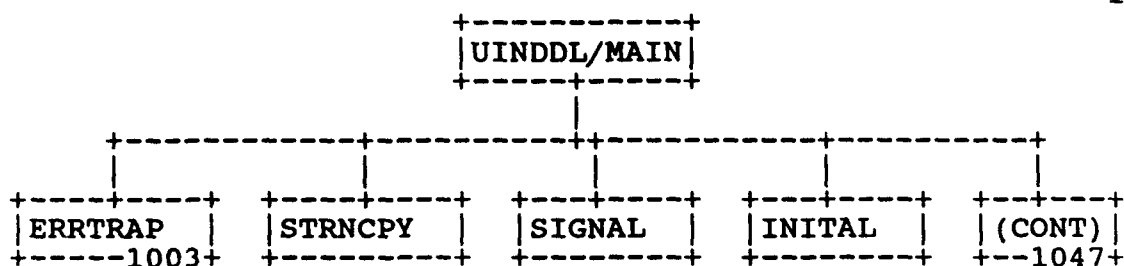
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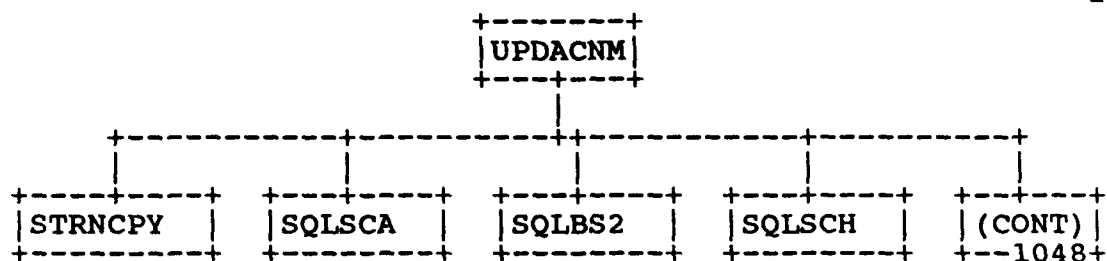
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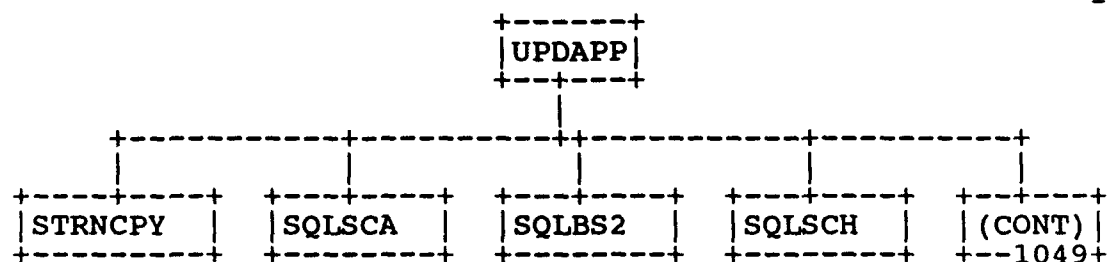
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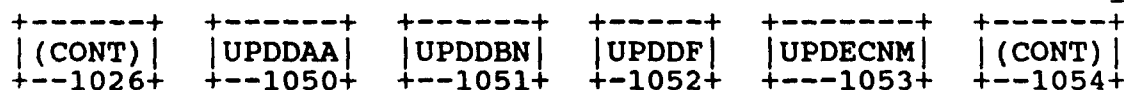
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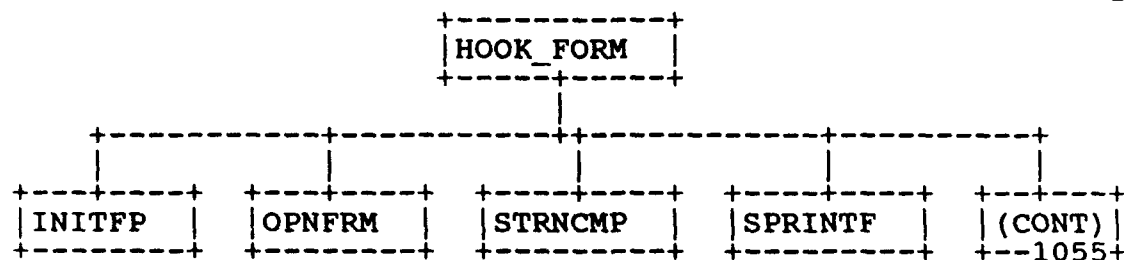
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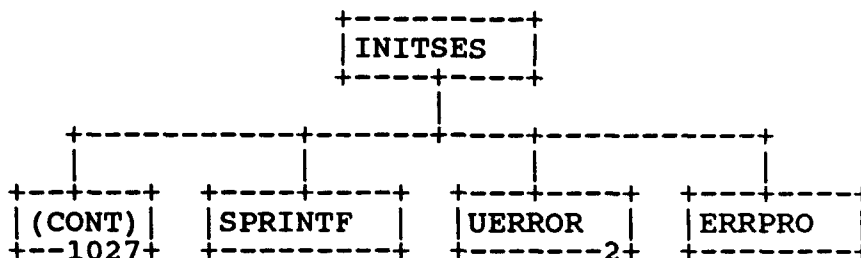
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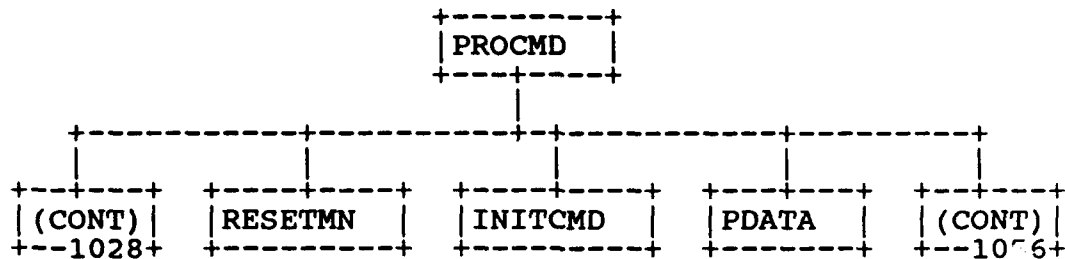
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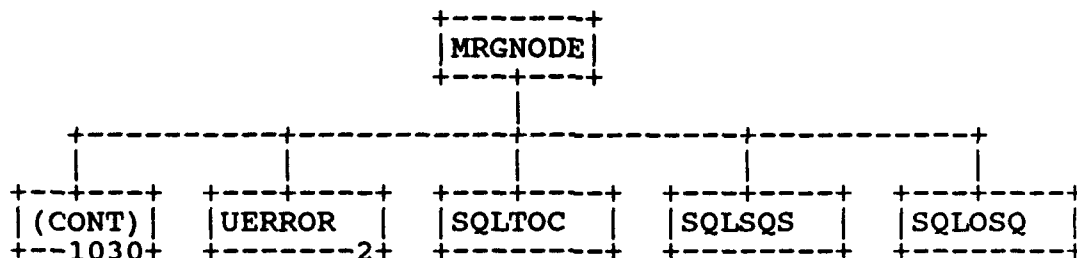
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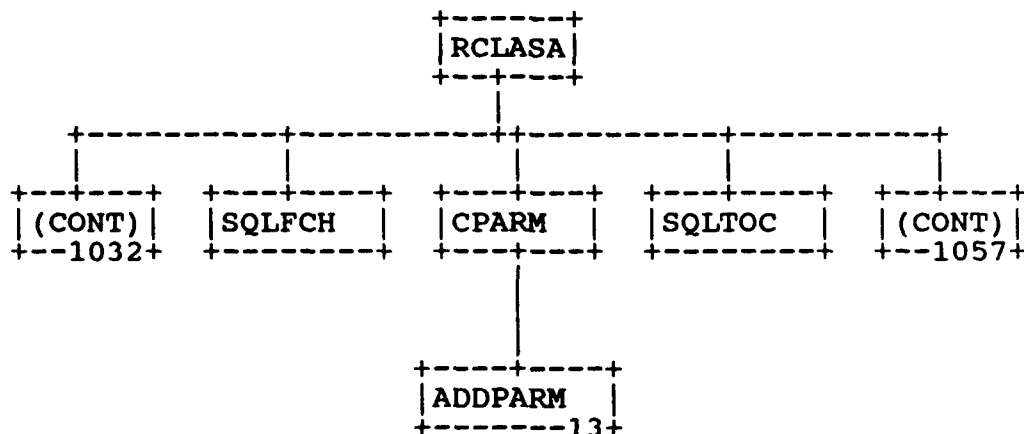
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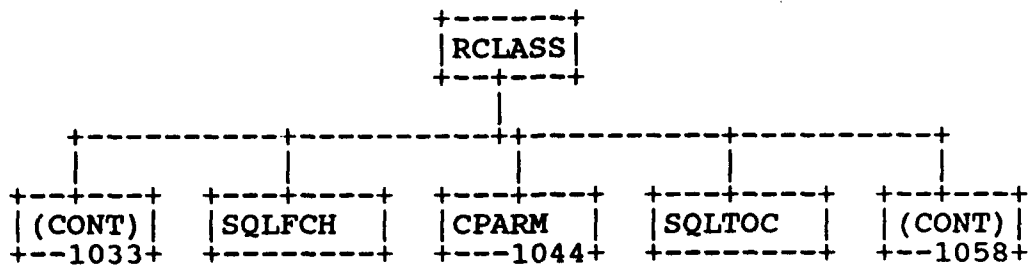
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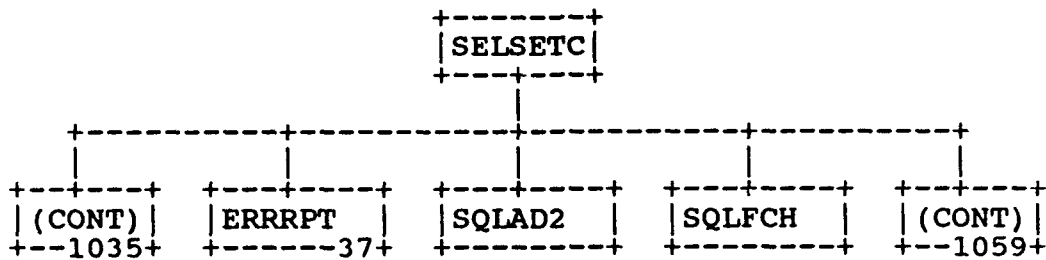
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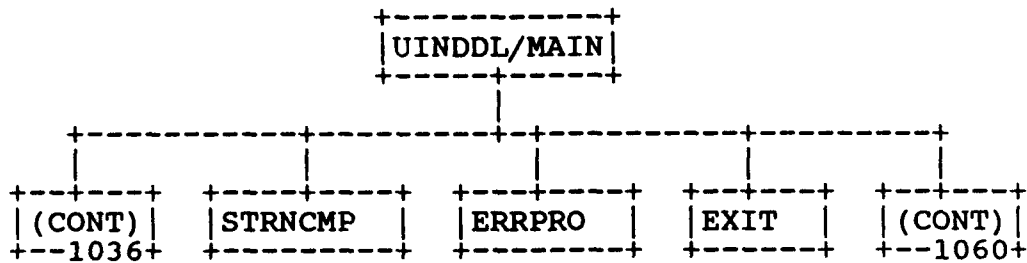
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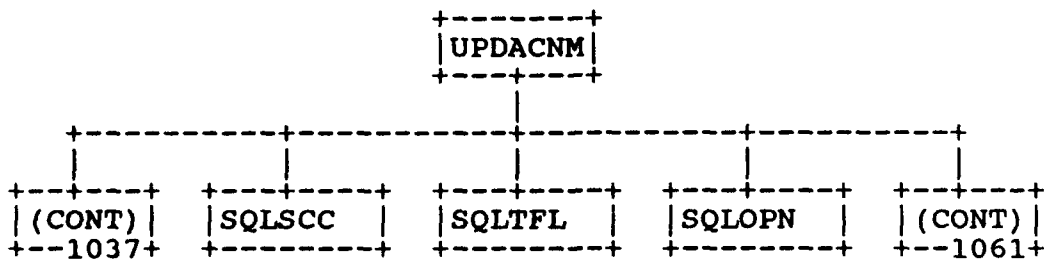
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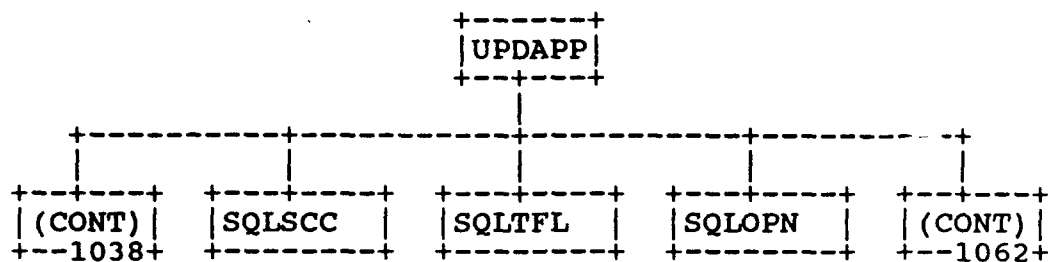
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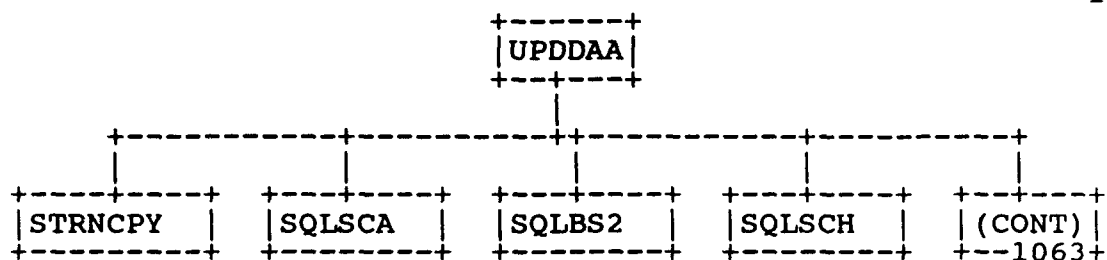
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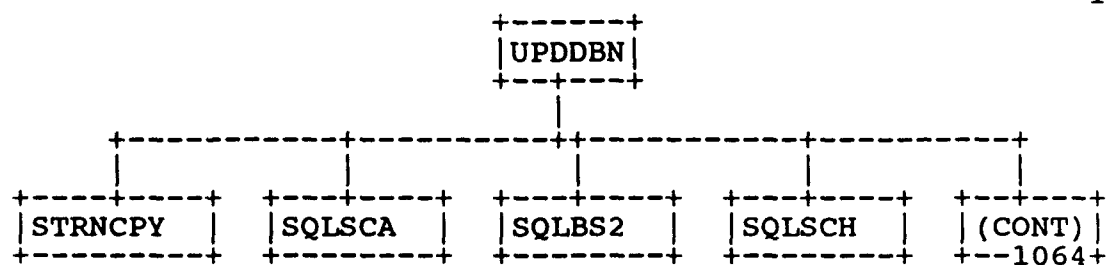
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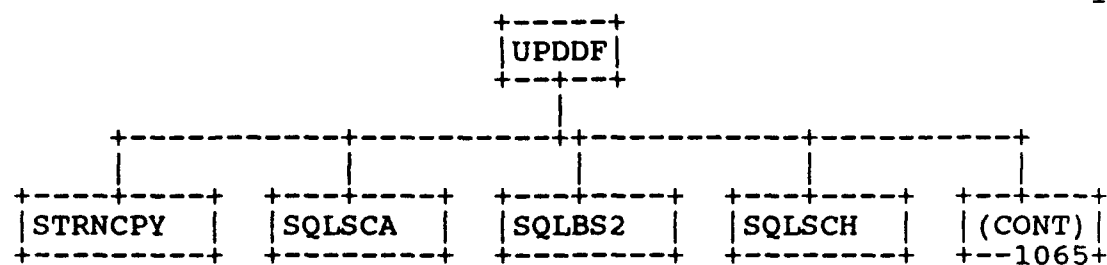
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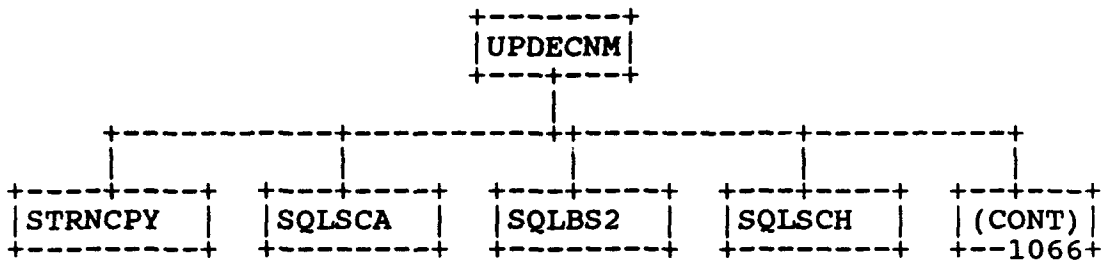
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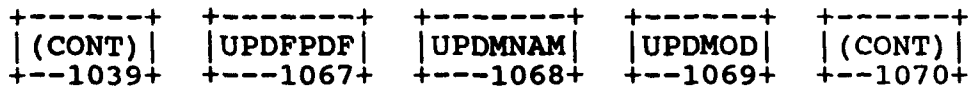
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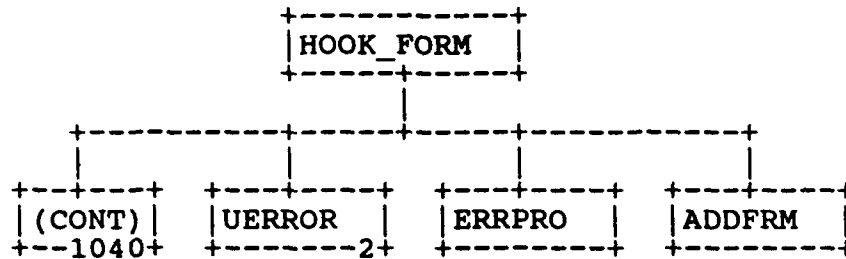
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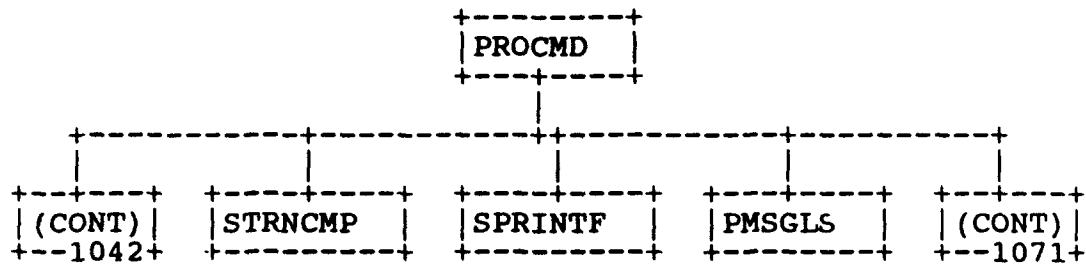
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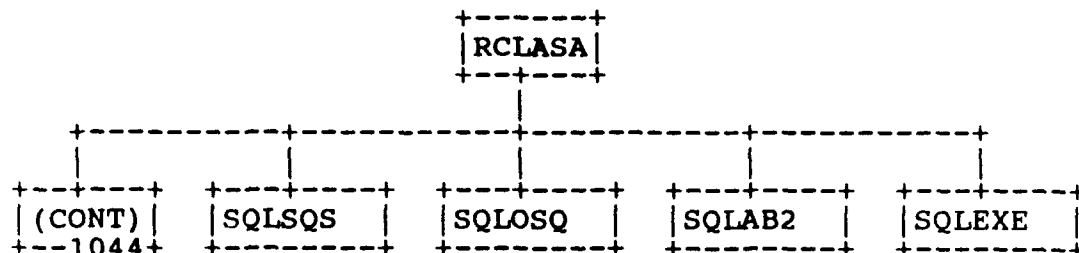
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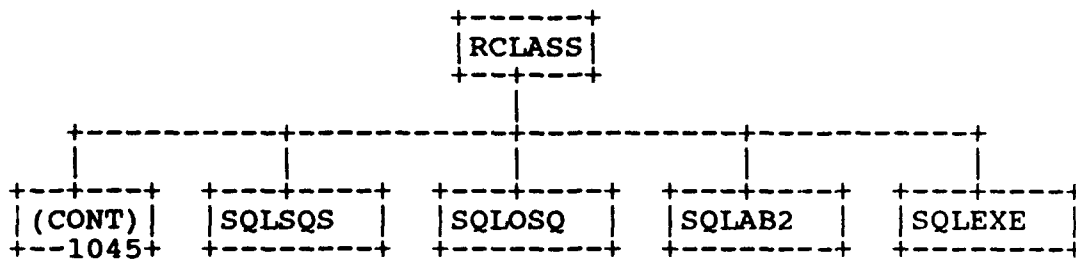
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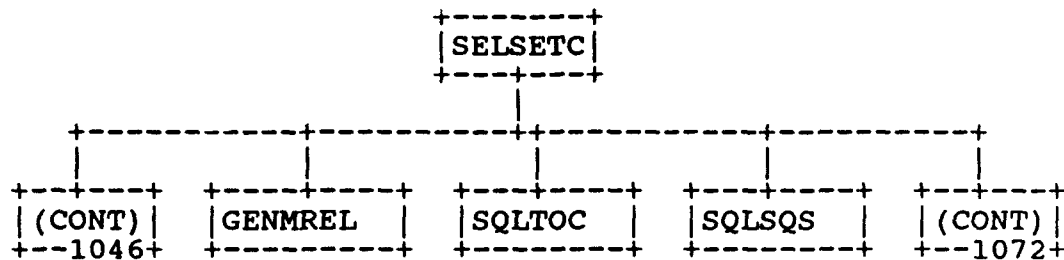
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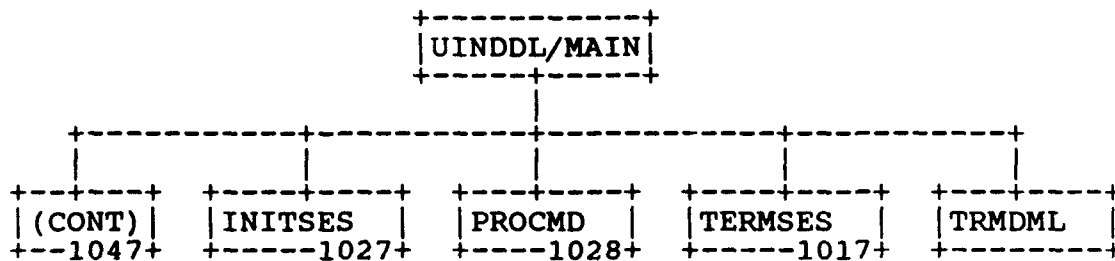
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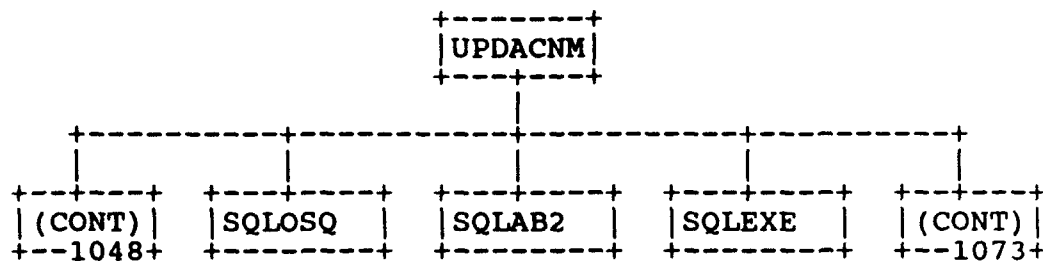
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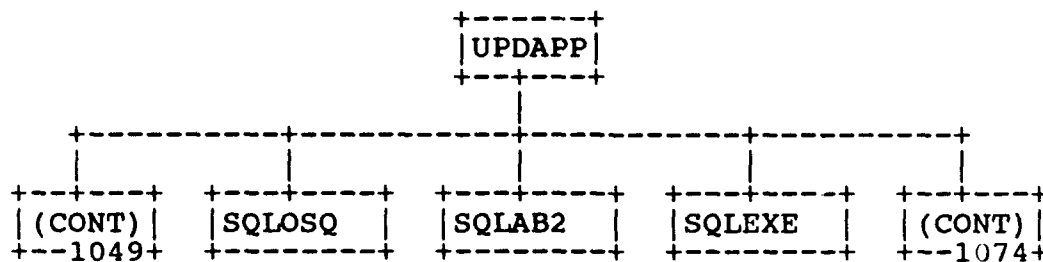
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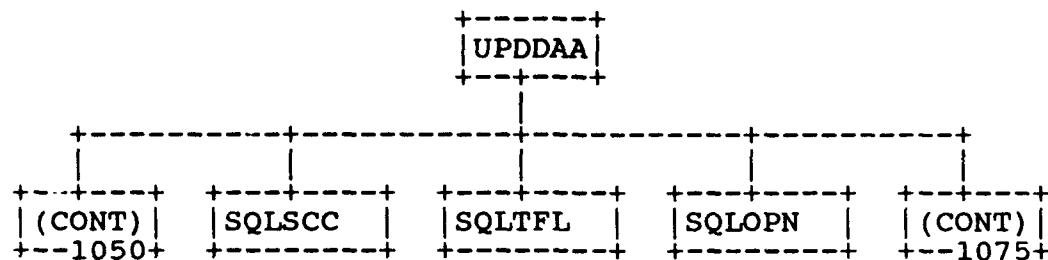
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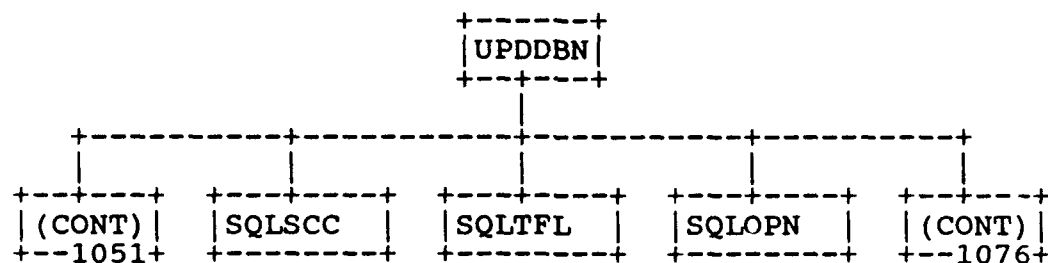
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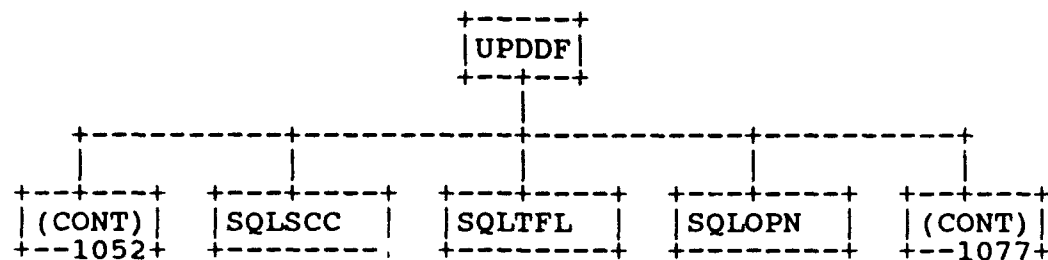
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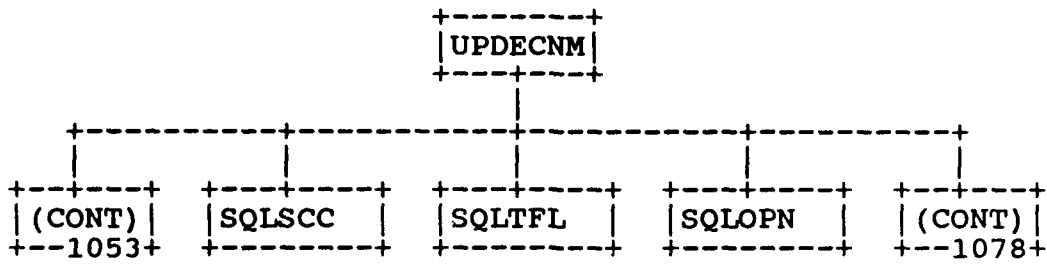
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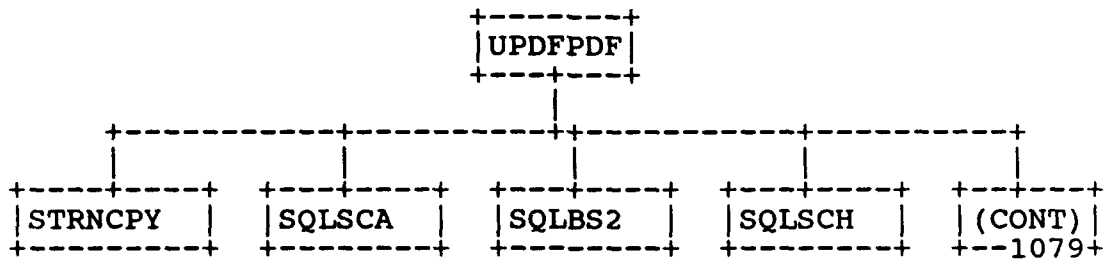
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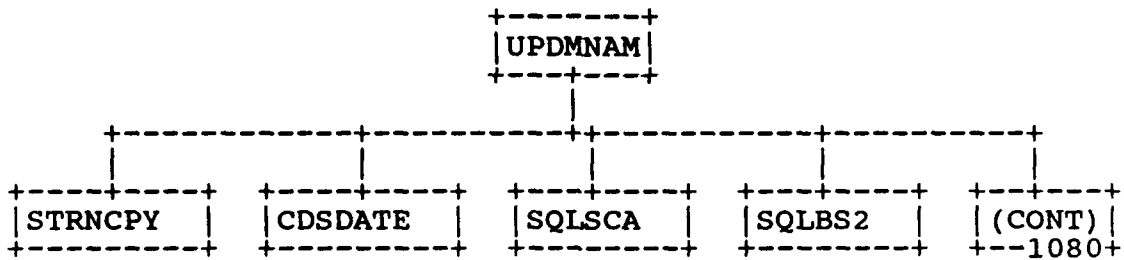
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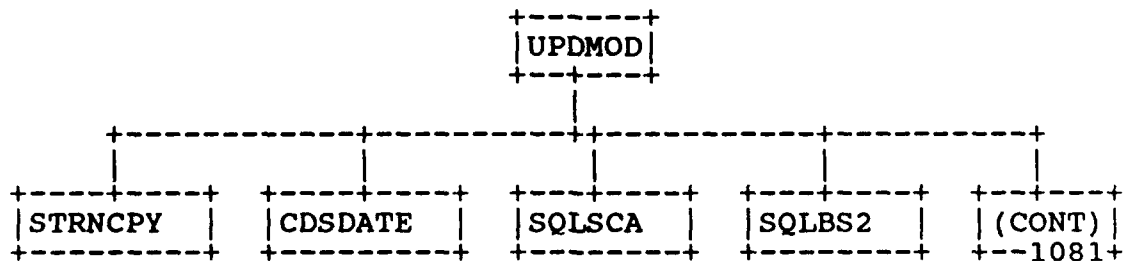
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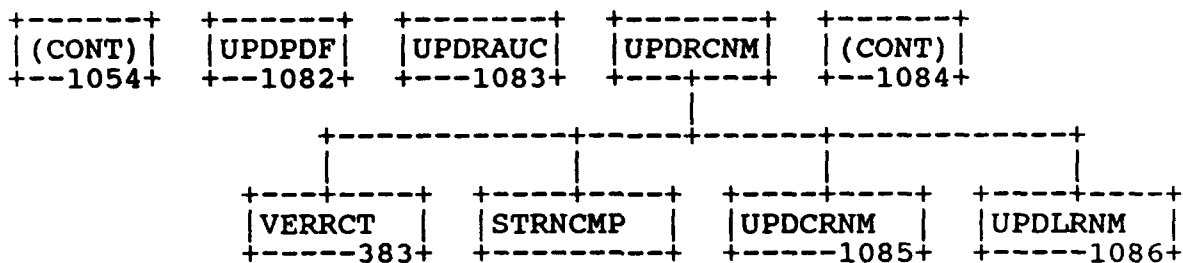
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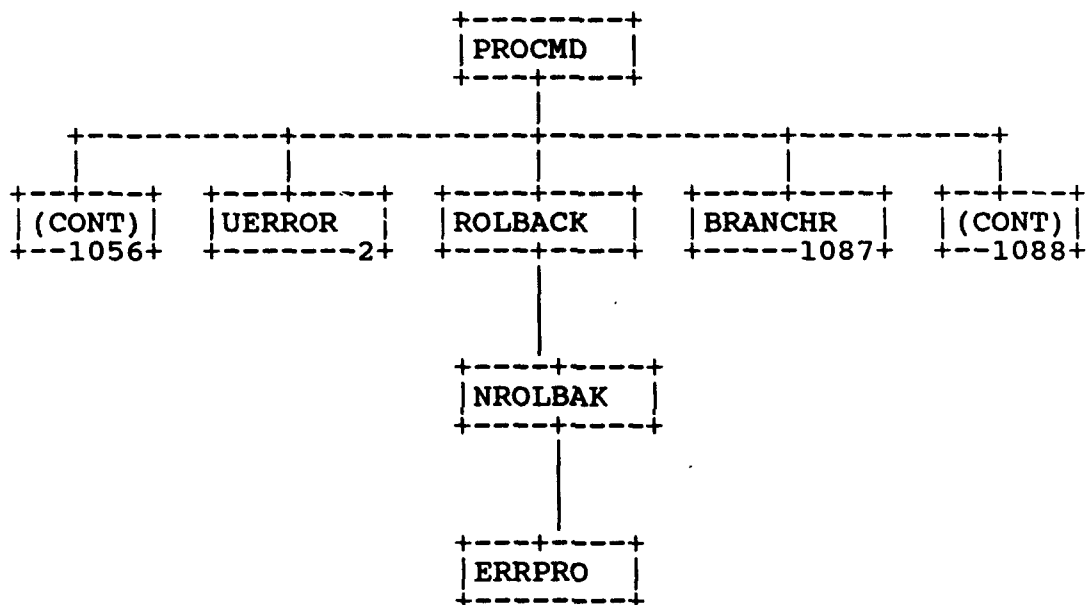
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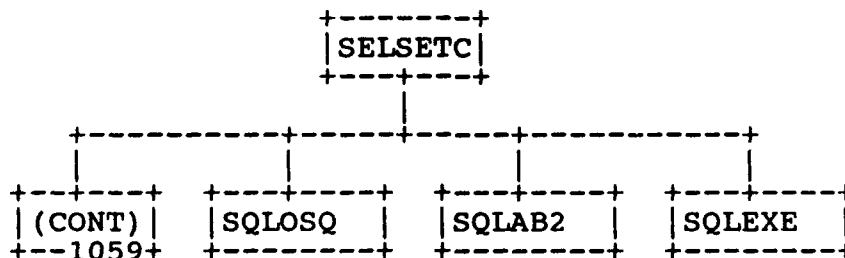
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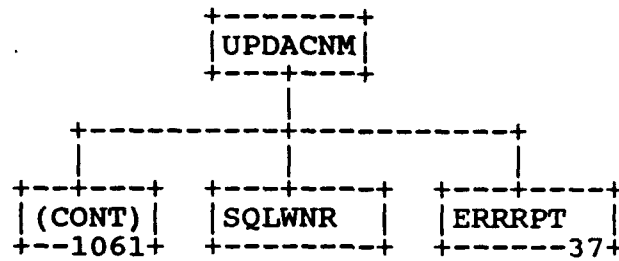
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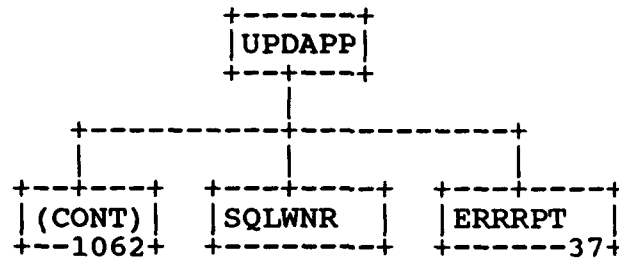
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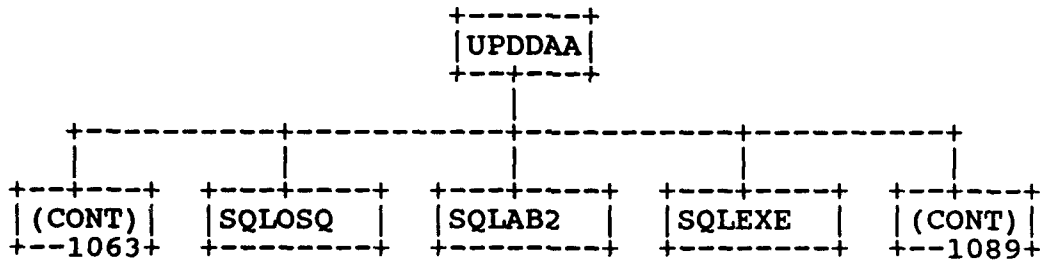
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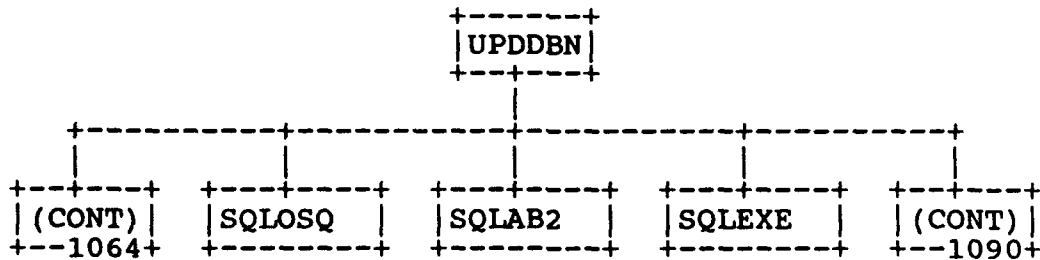
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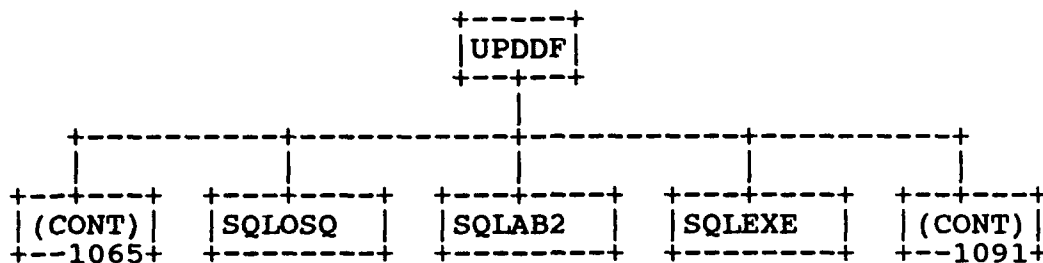
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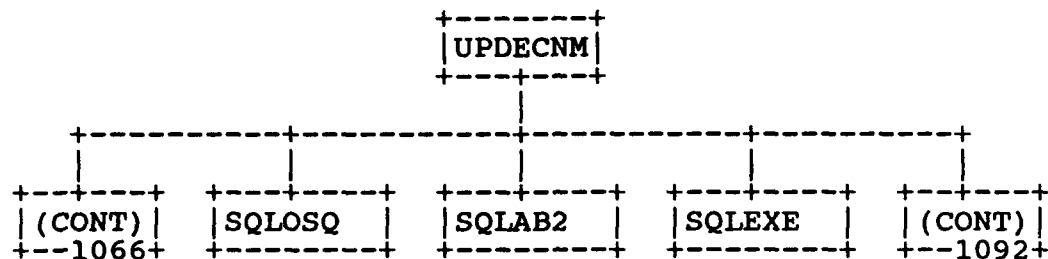
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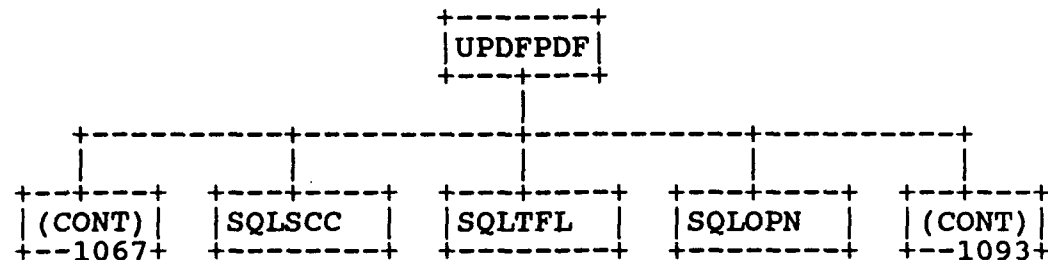
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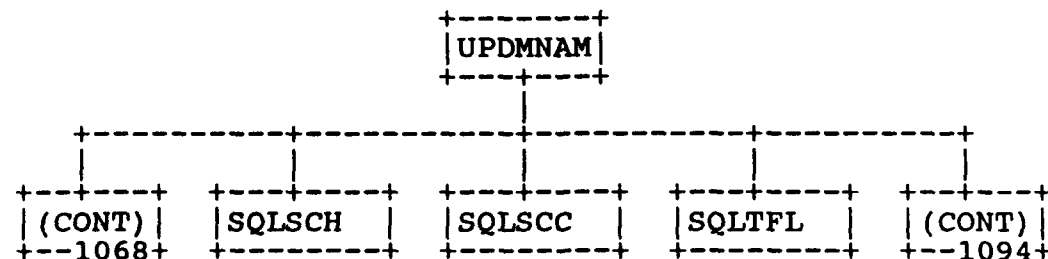
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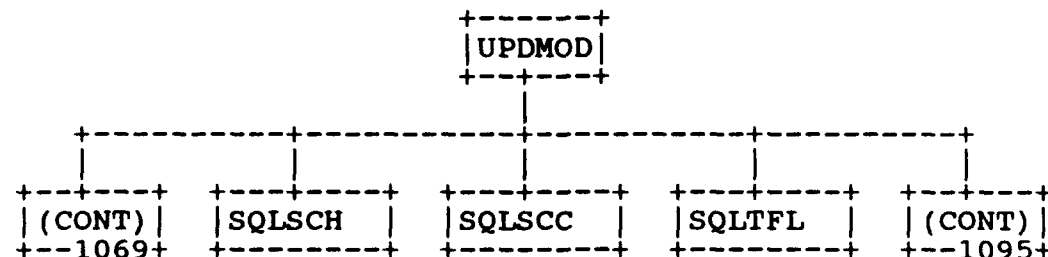
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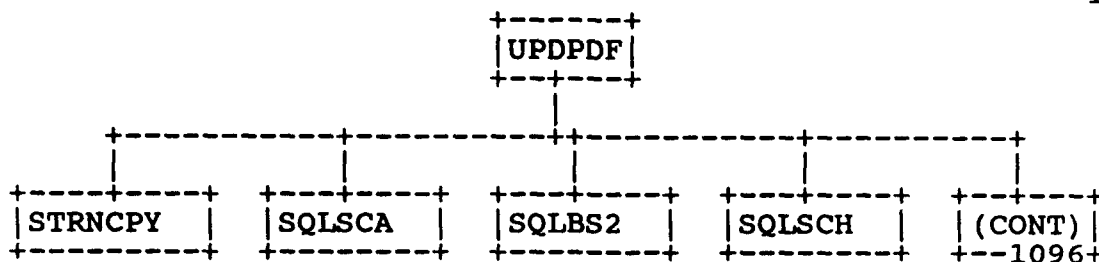
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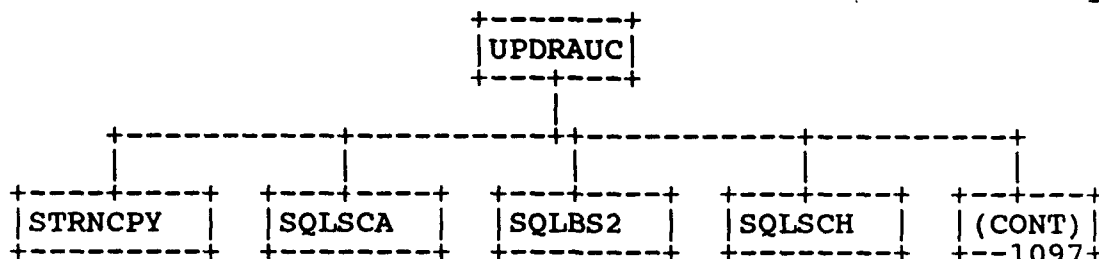
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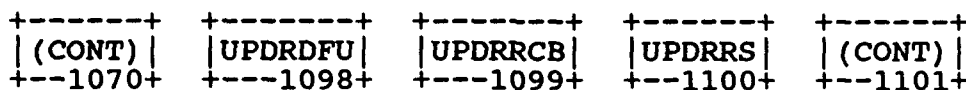
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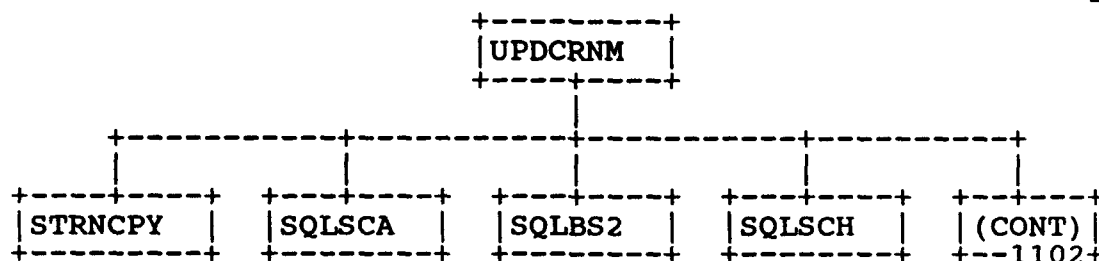
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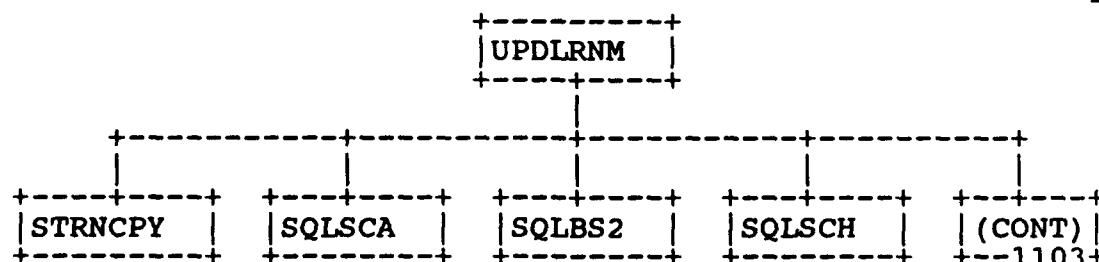
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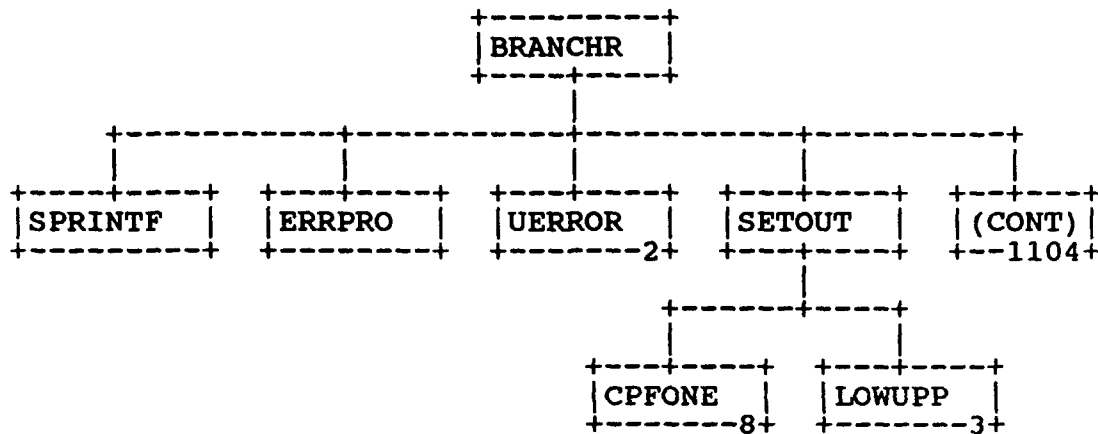
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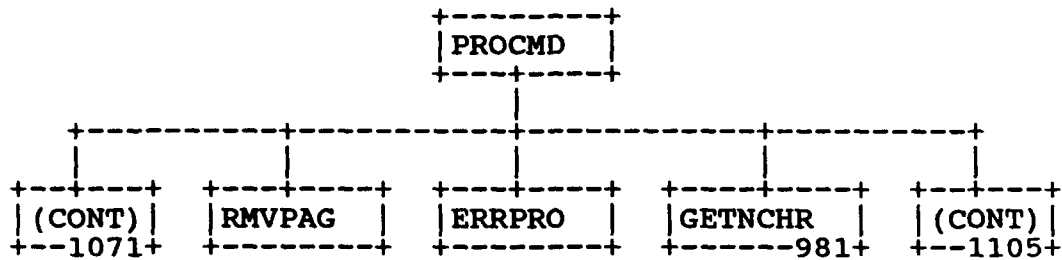
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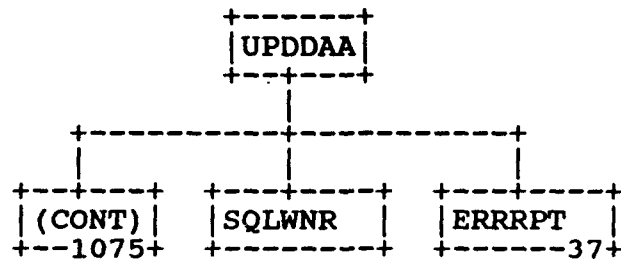
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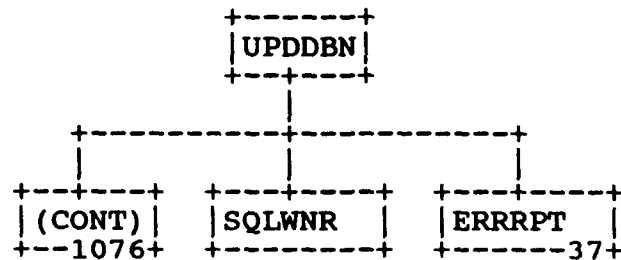
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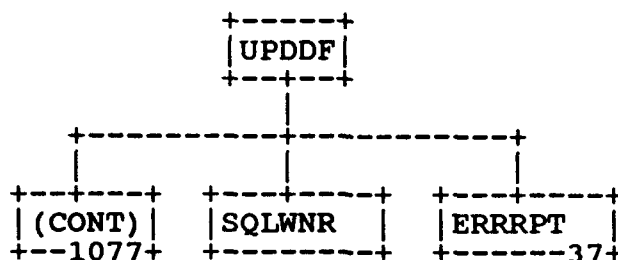
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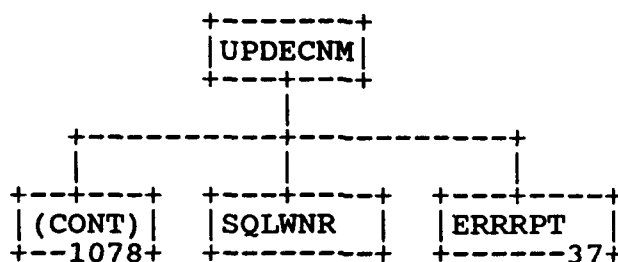
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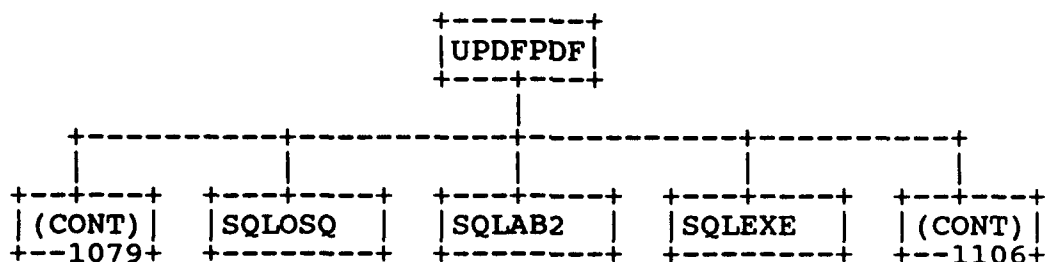
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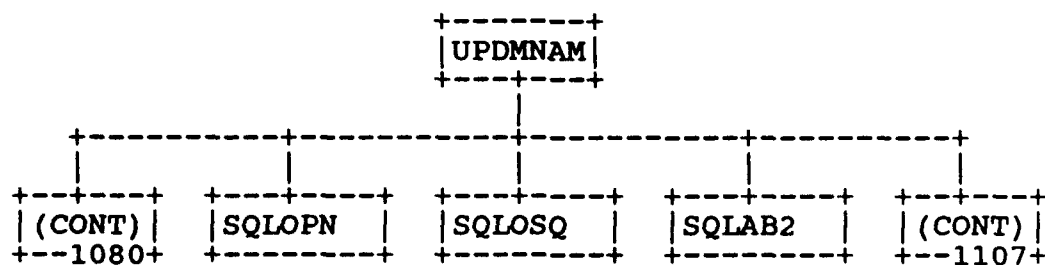
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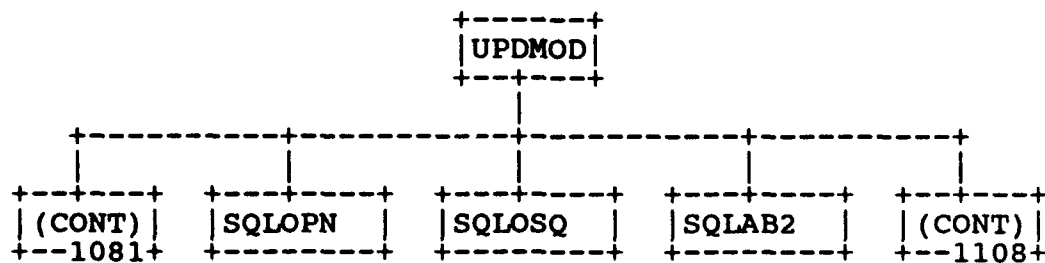
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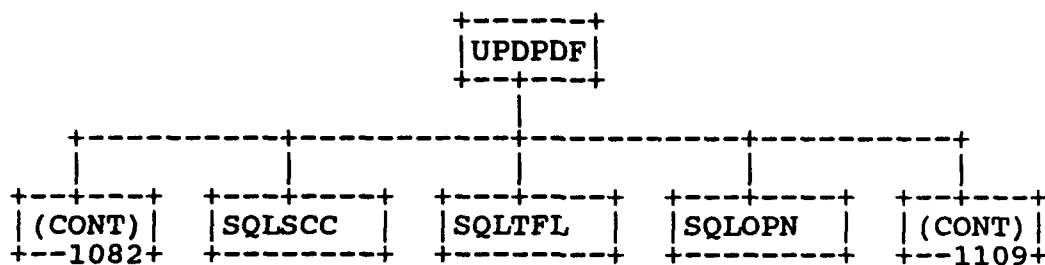
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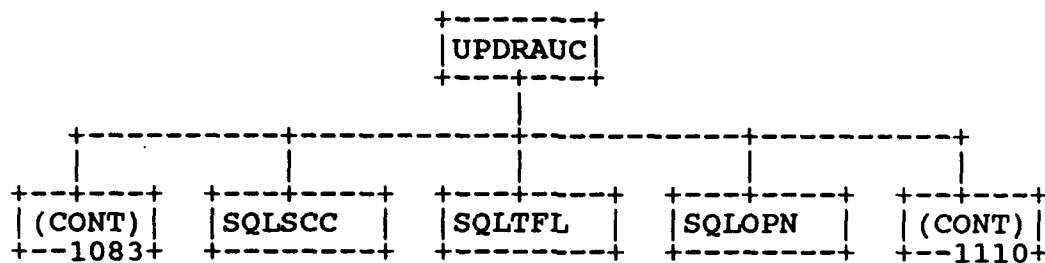
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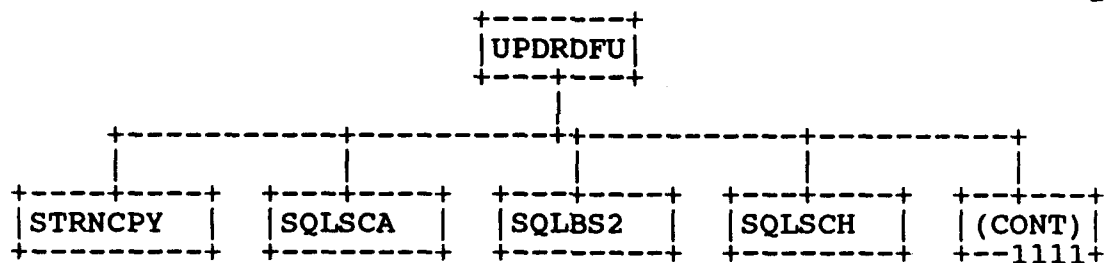
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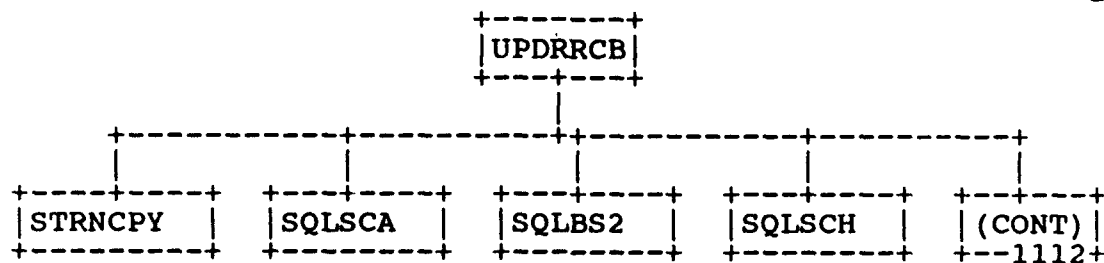
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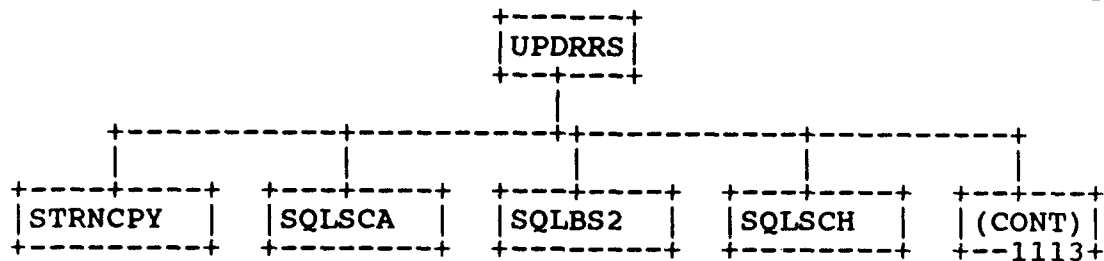
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1099



1100



1101

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UPDCRNM				
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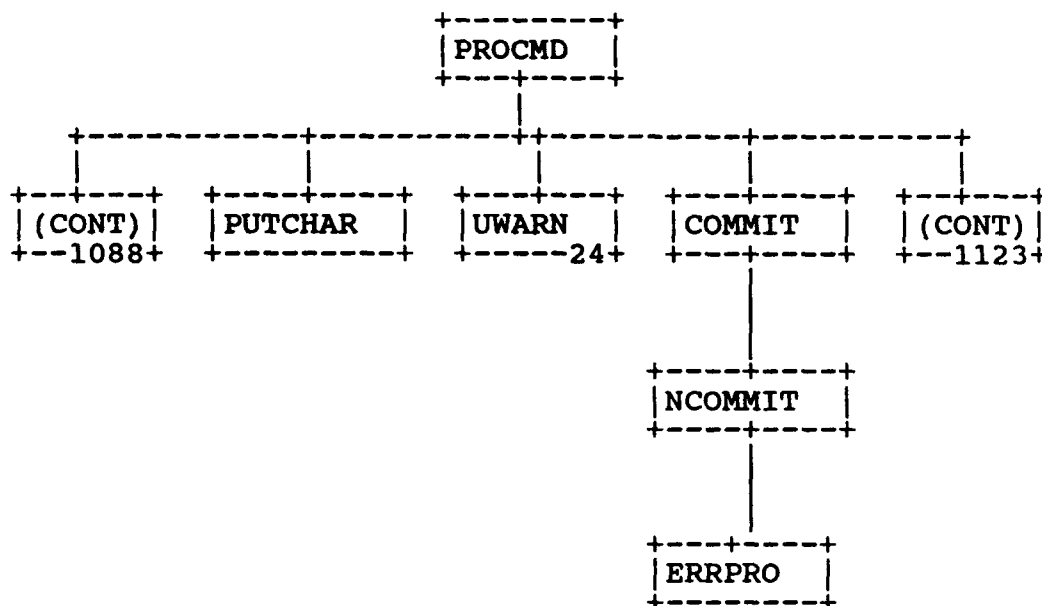
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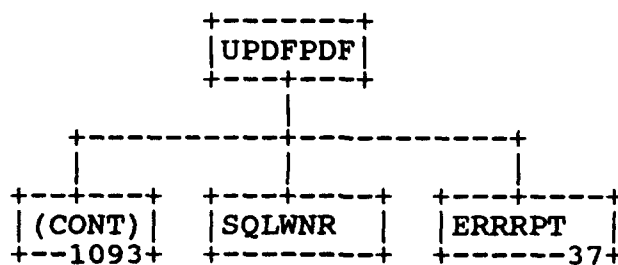
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CPHONE	ROLBACK	COMMIT		
-8	-1071	-1105		

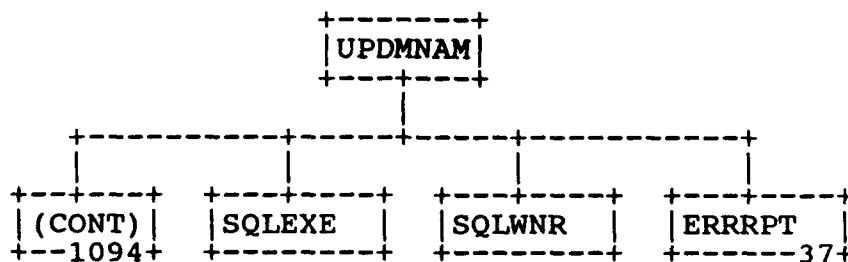
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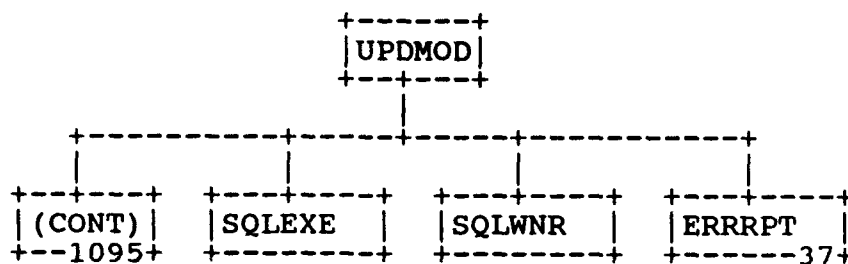
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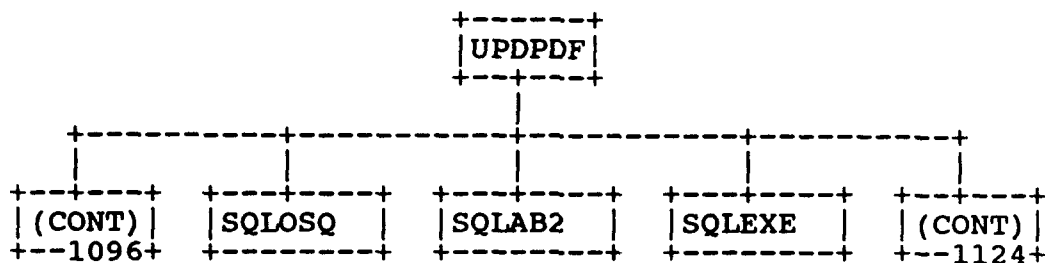
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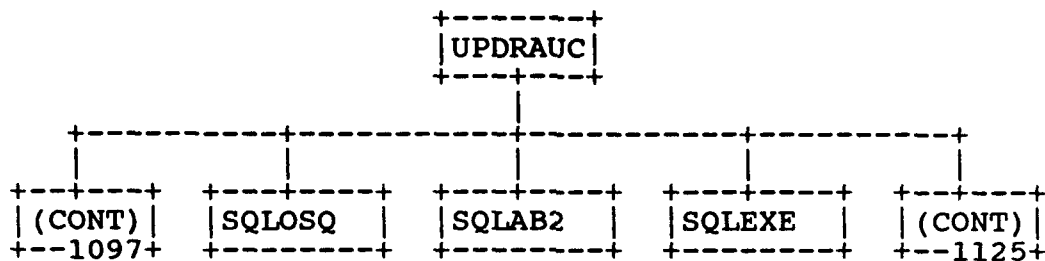
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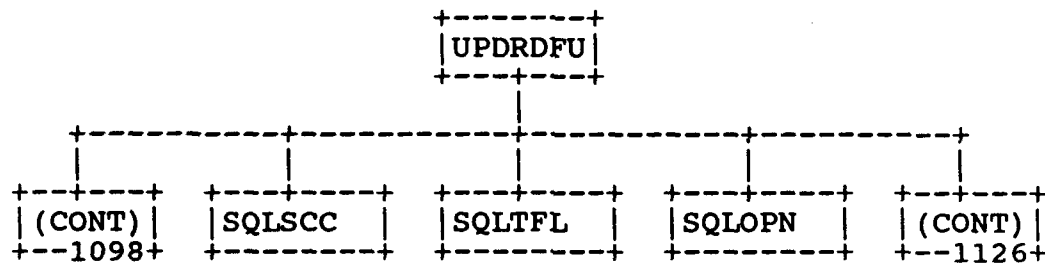
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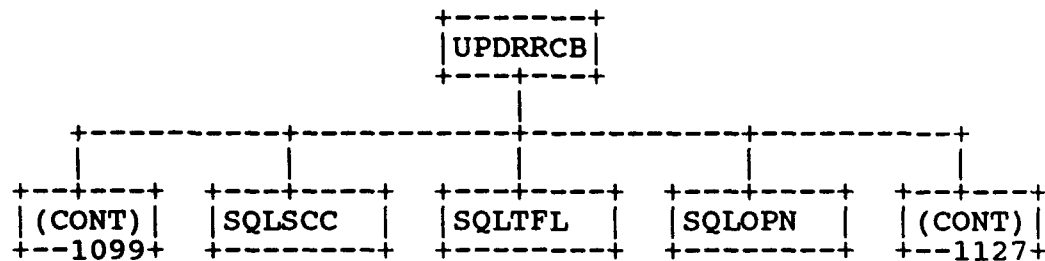
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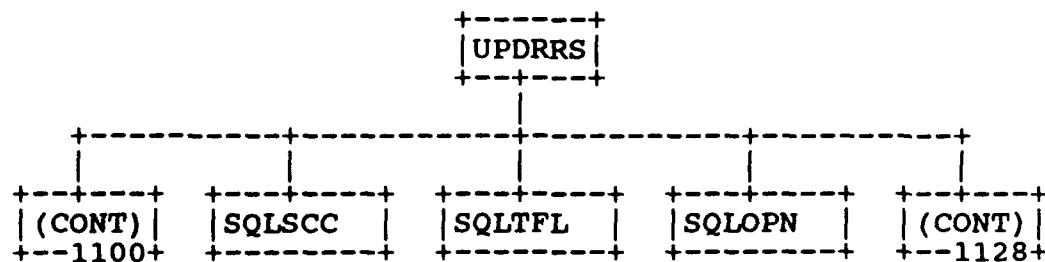
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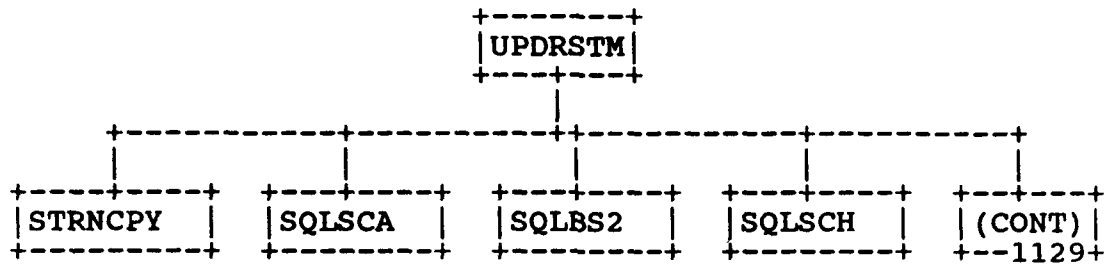
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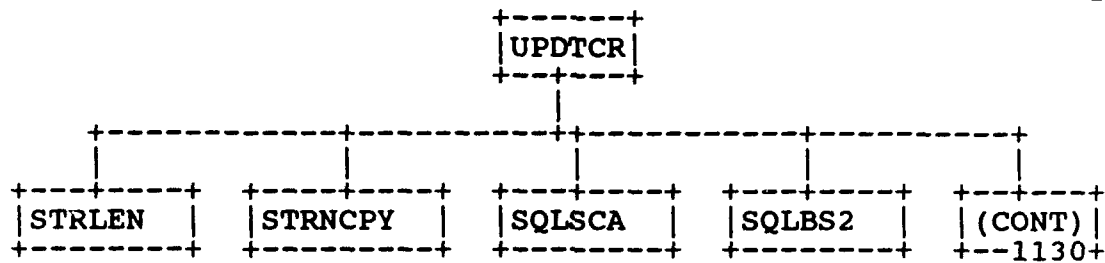
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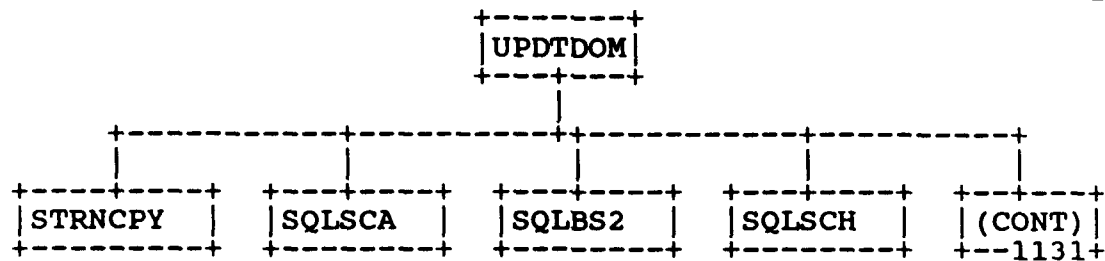
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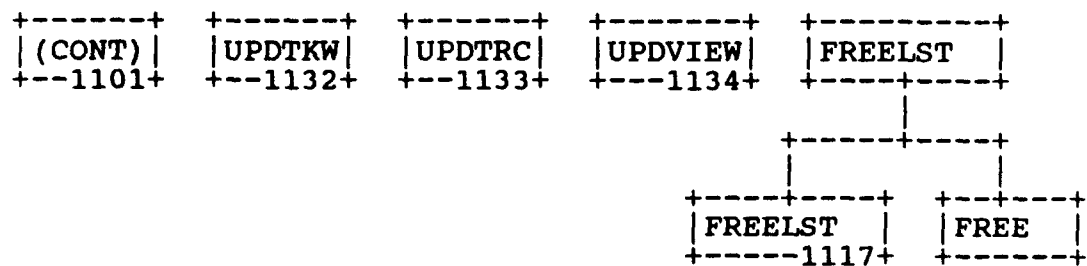
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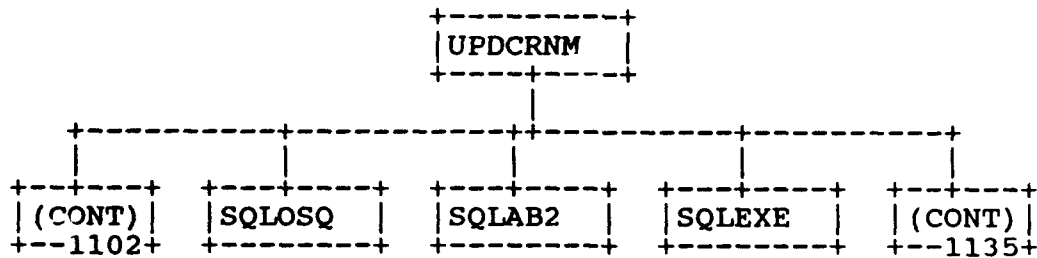
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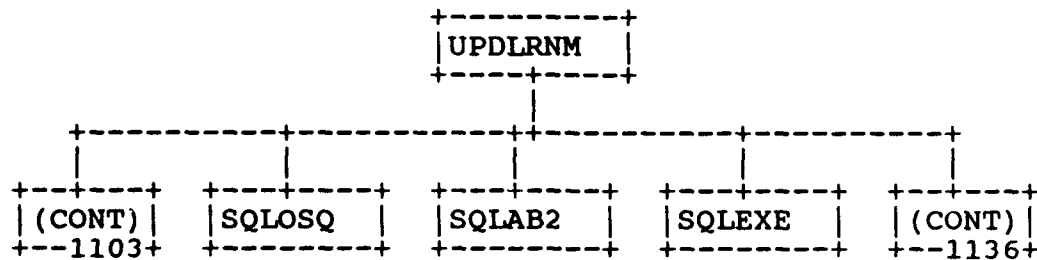
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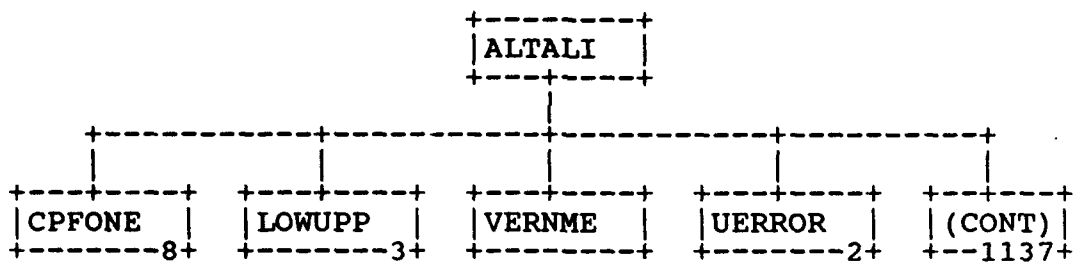
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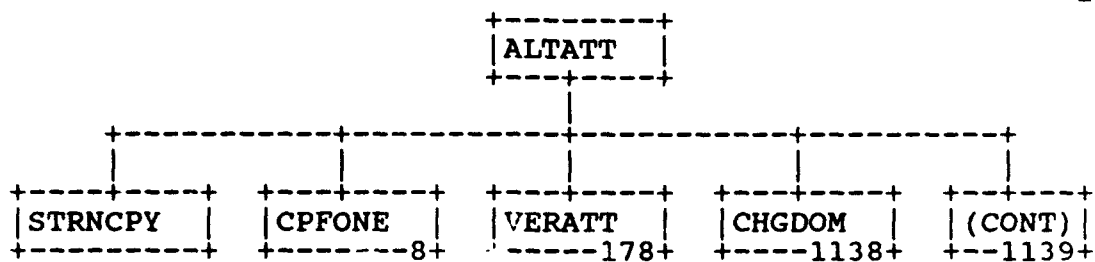
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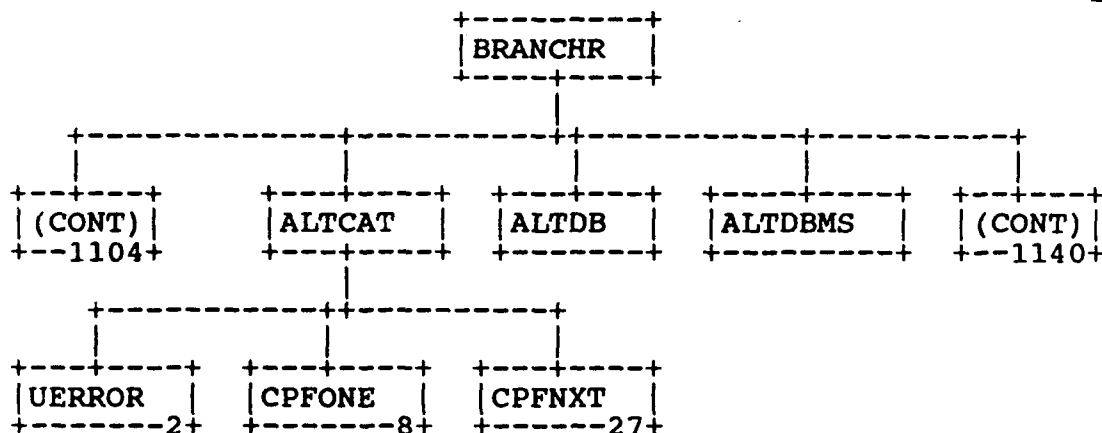
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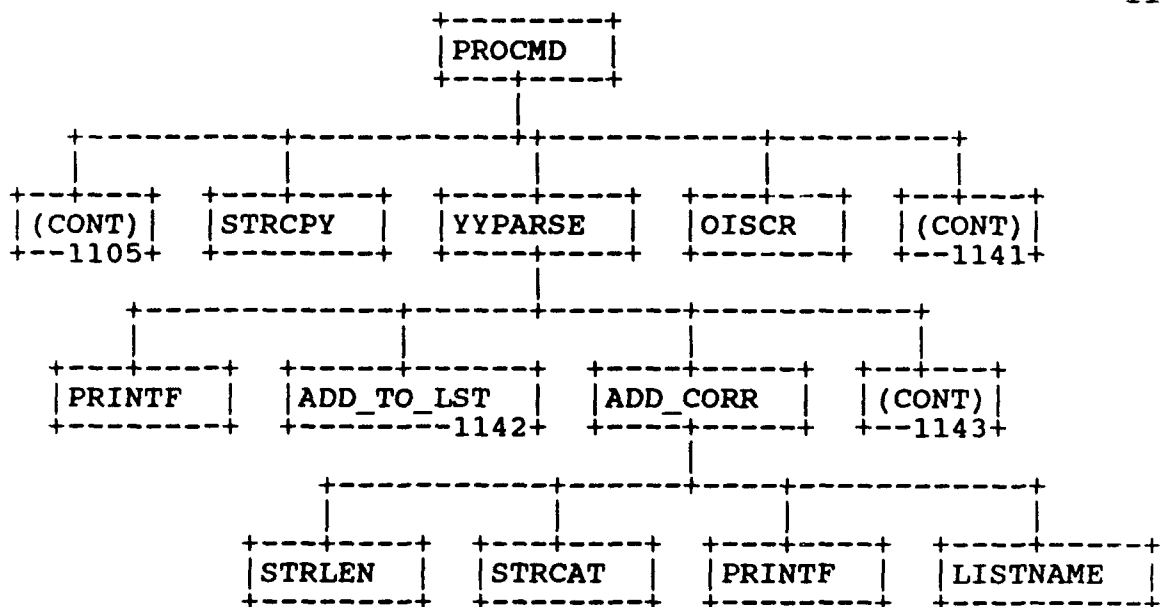
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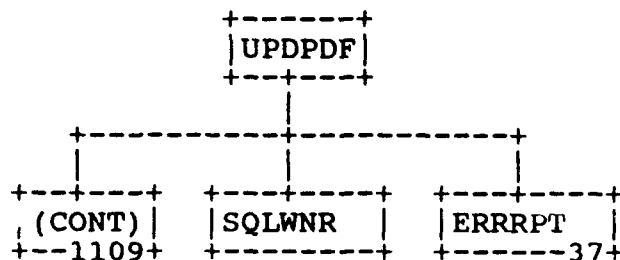
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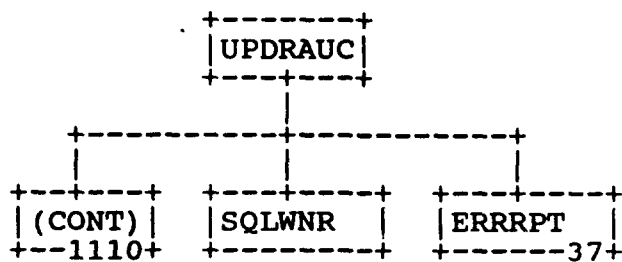
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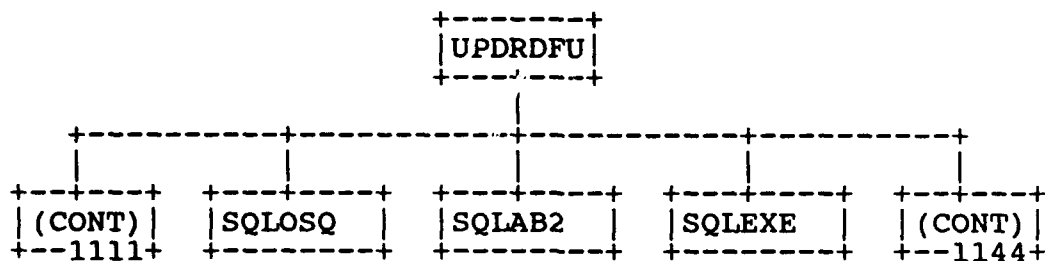
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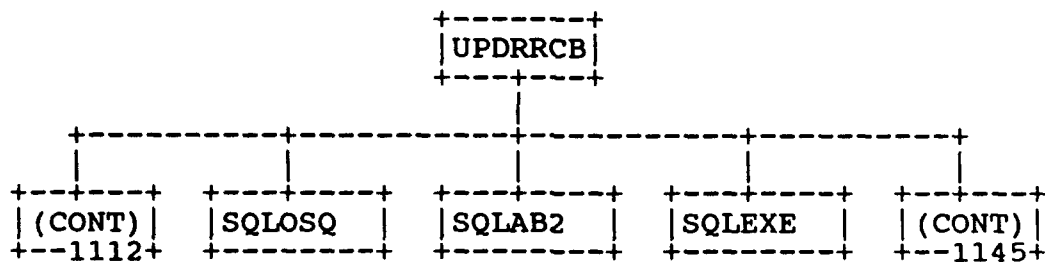
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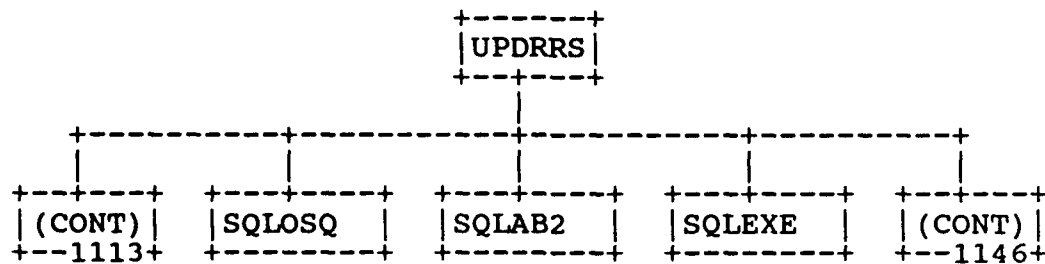
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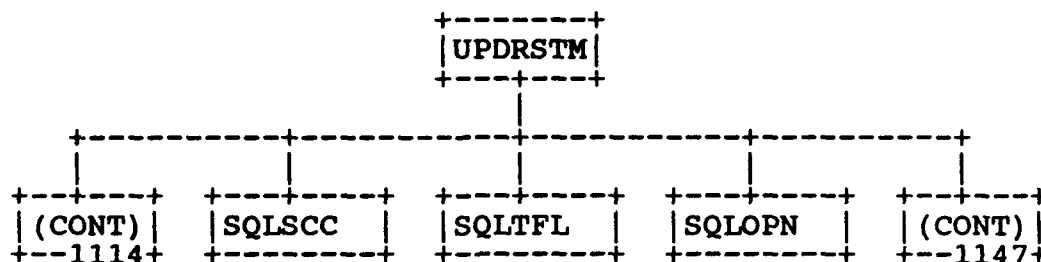
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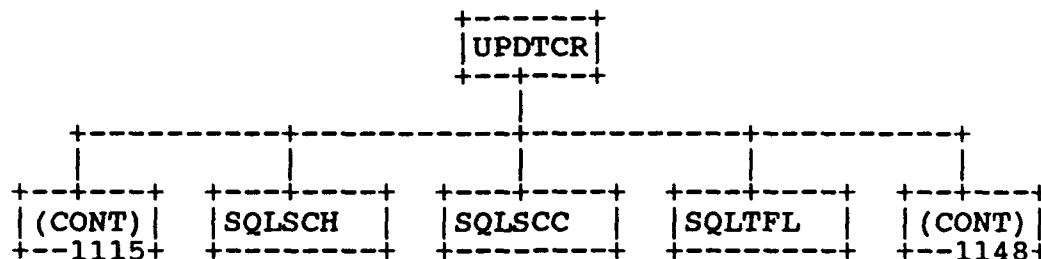
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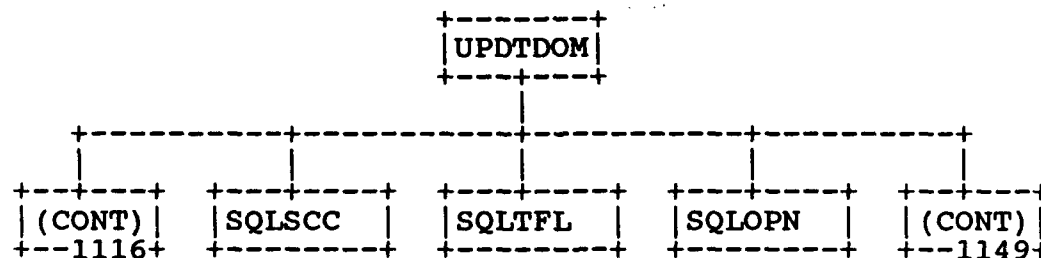
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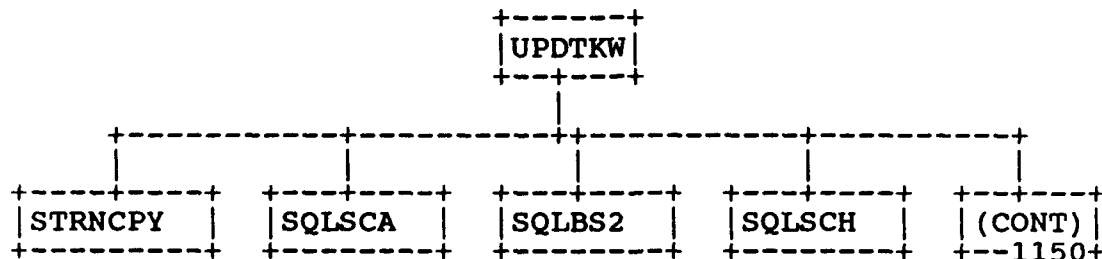
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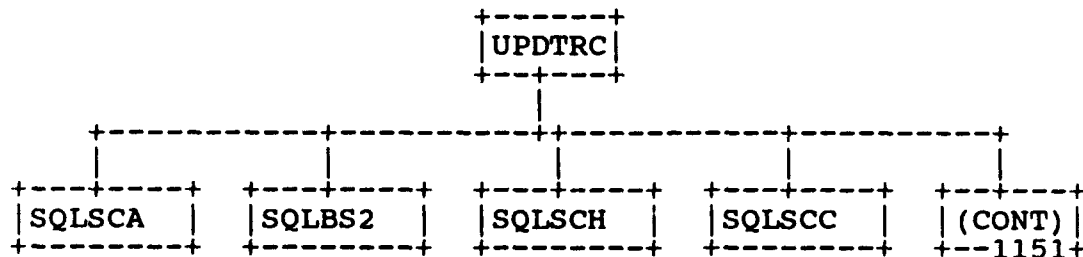
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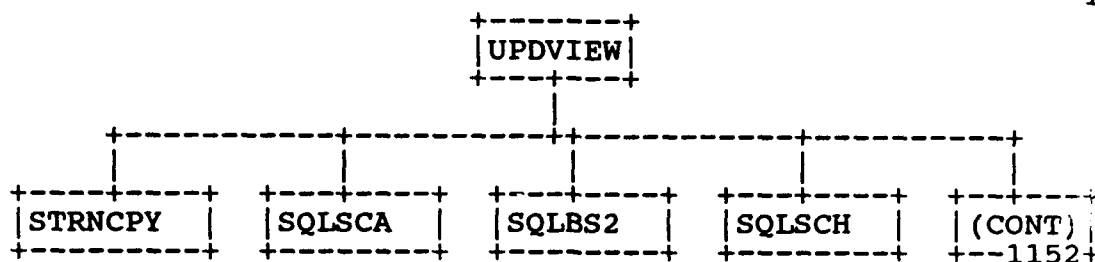
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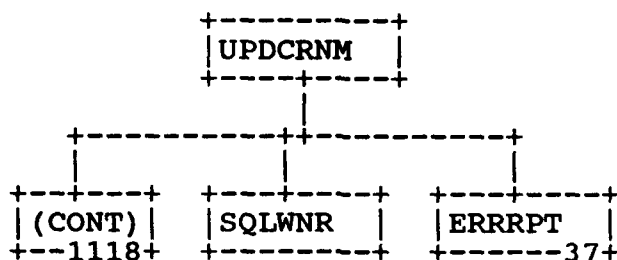
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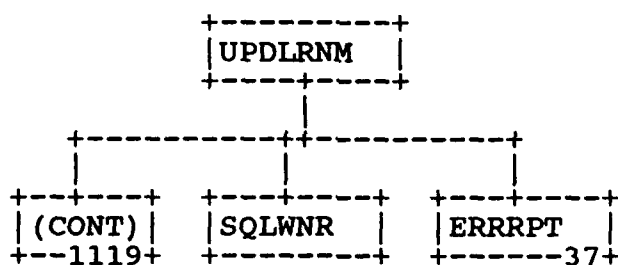
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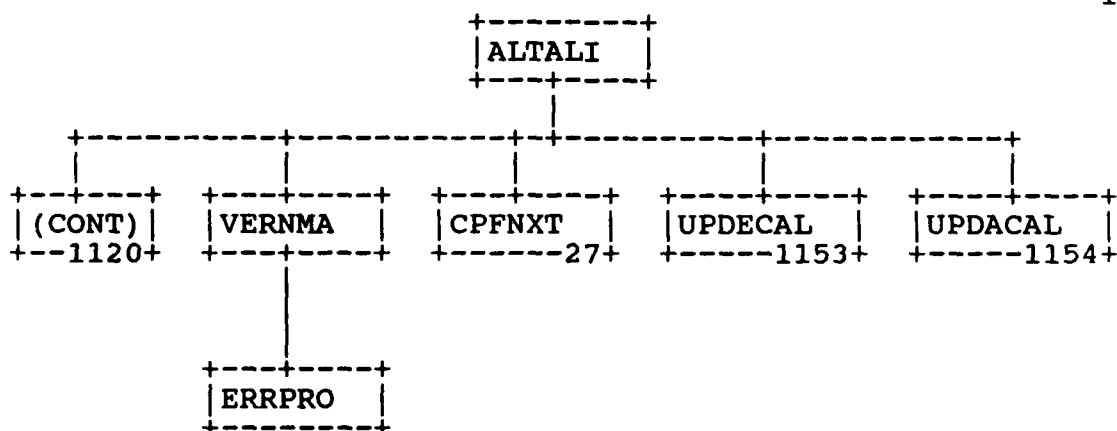
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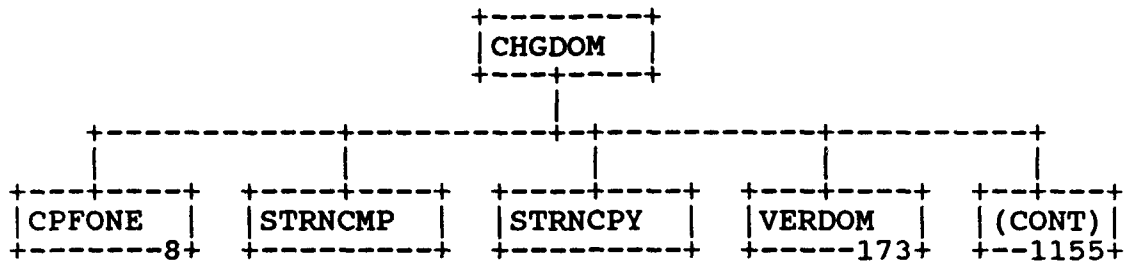
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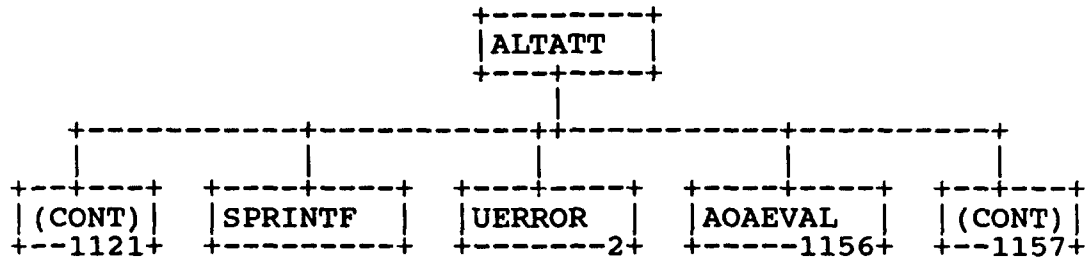
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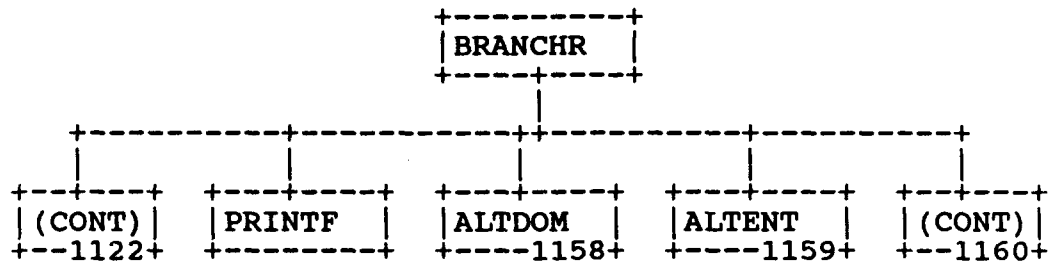
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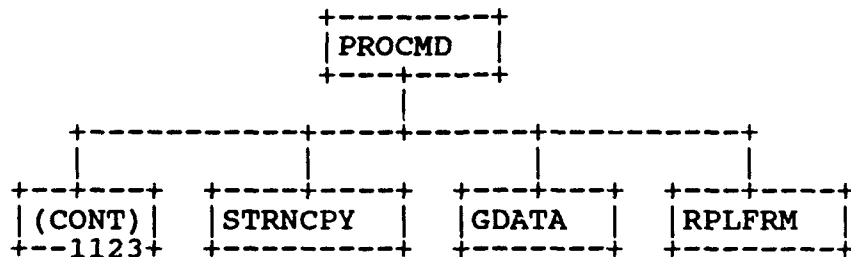
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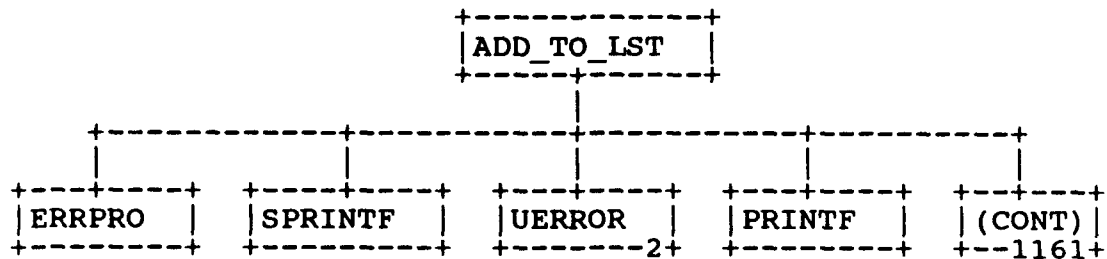
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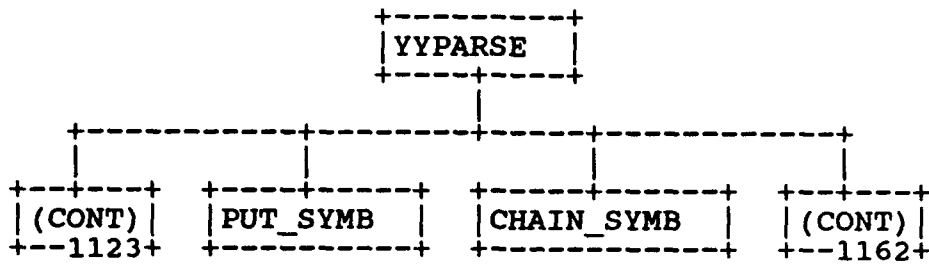
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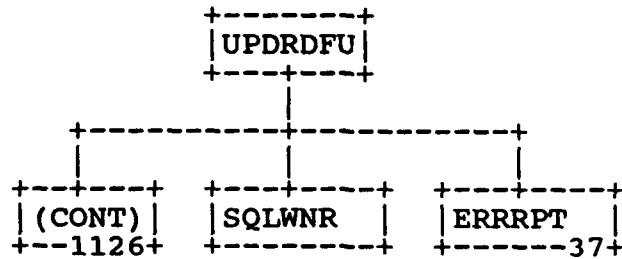
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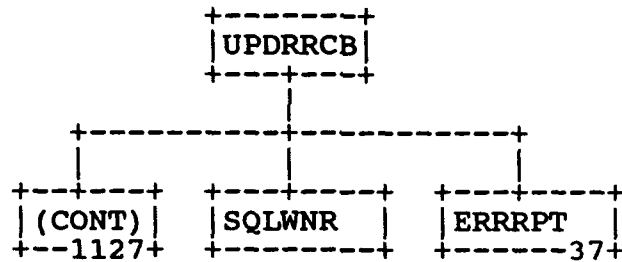
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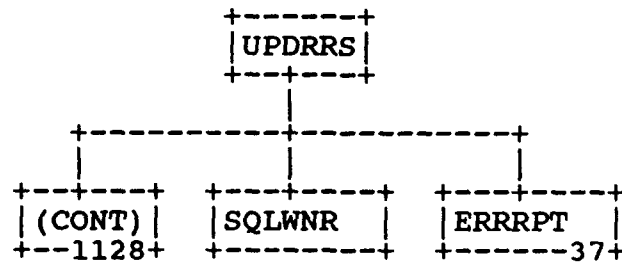
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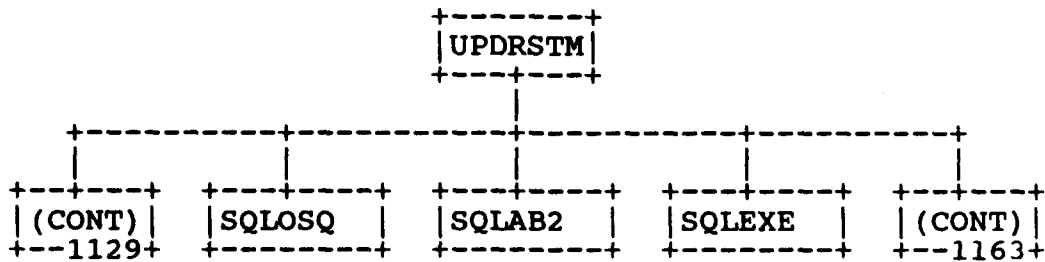
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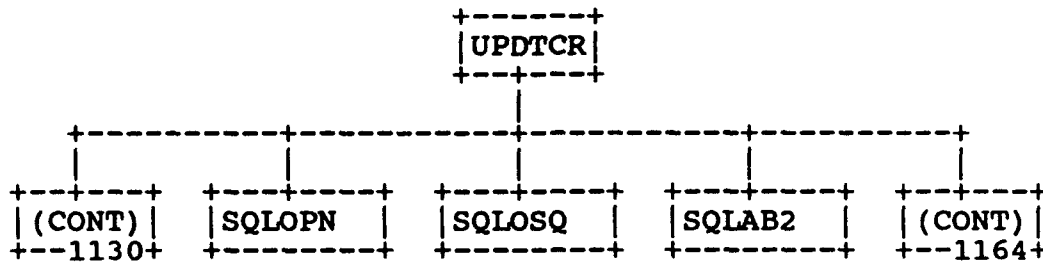
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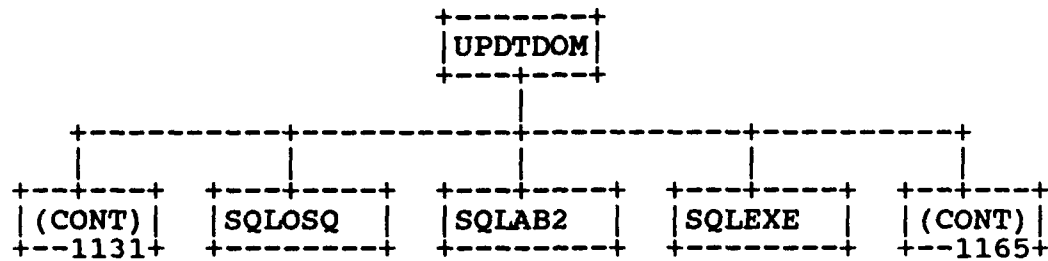
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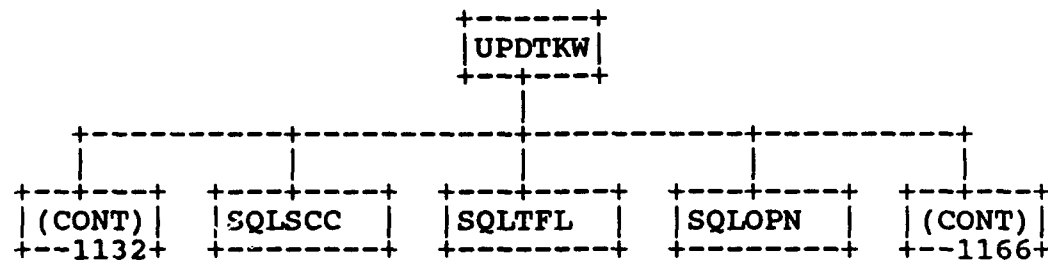
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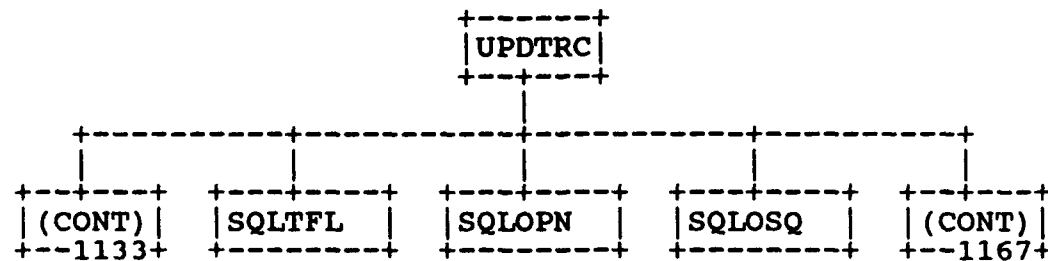
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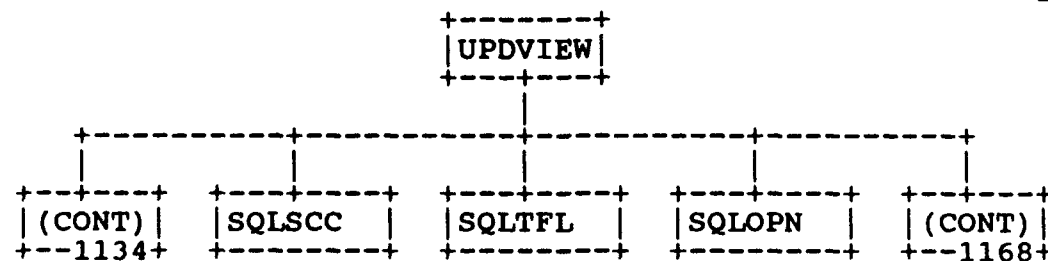
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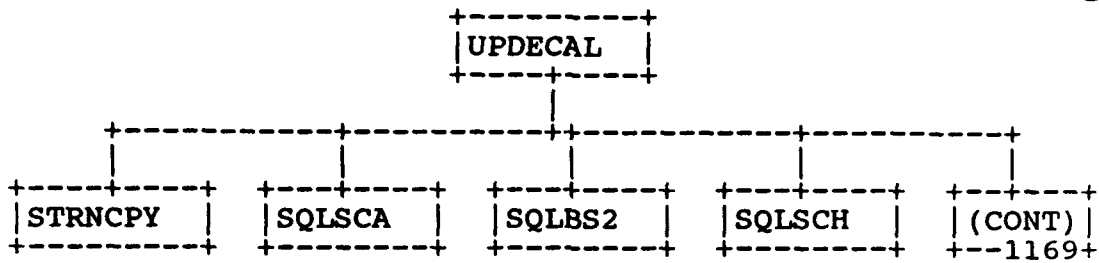
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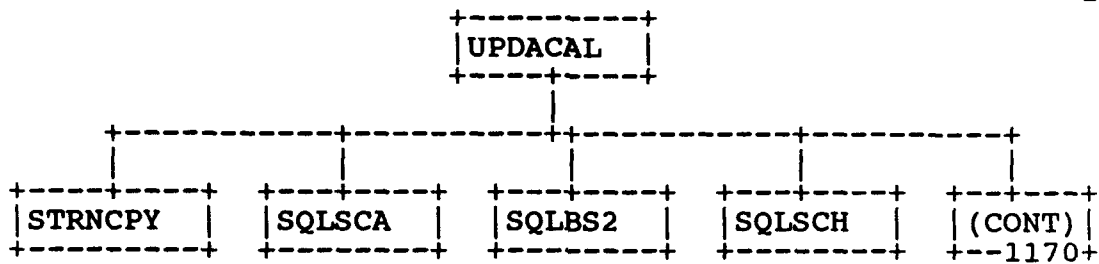
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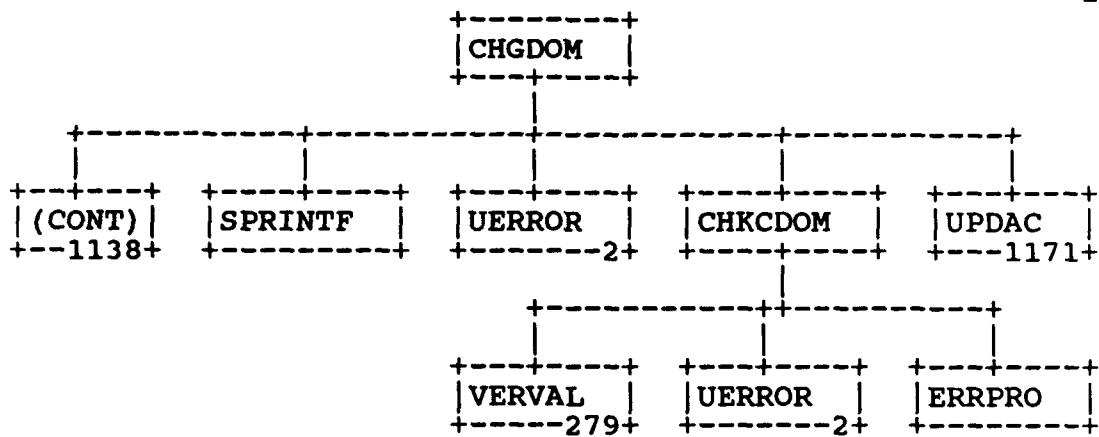
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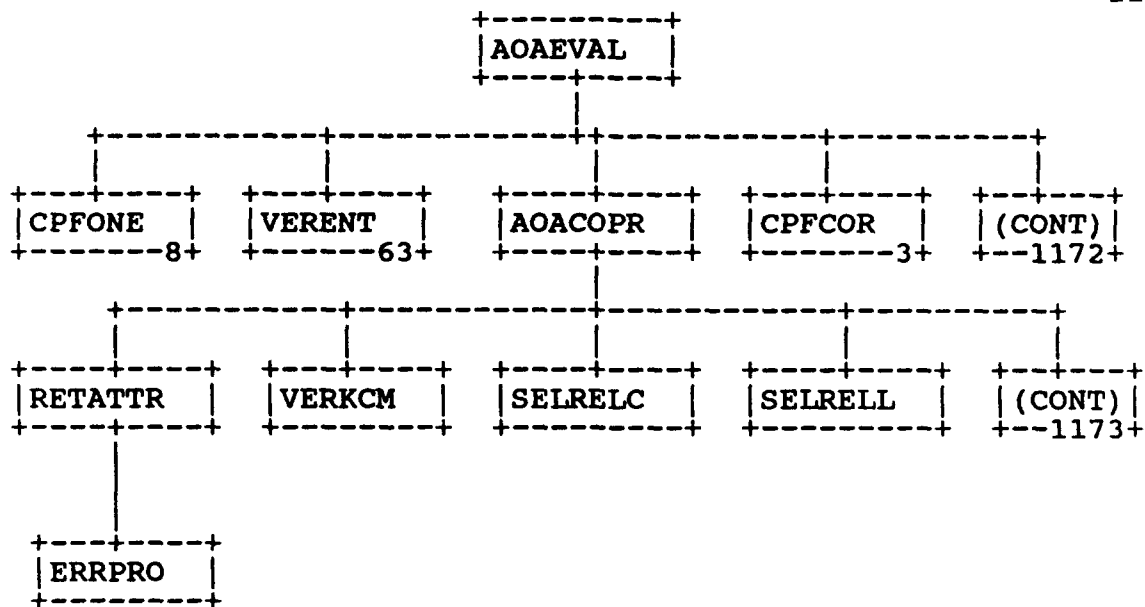
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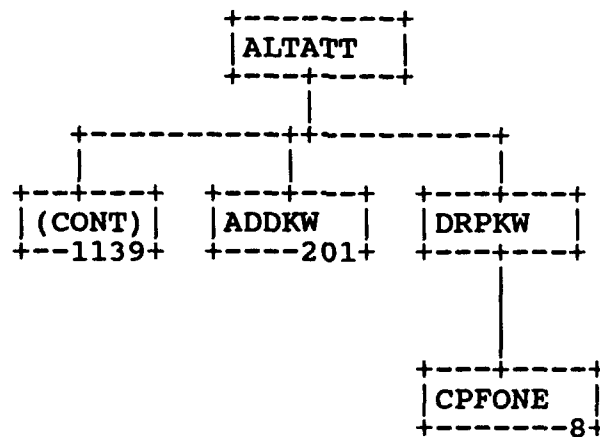
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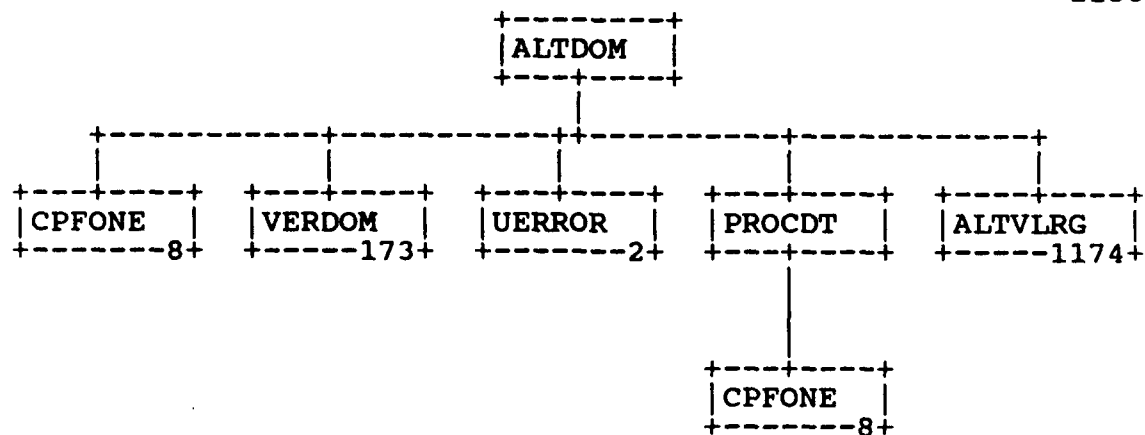
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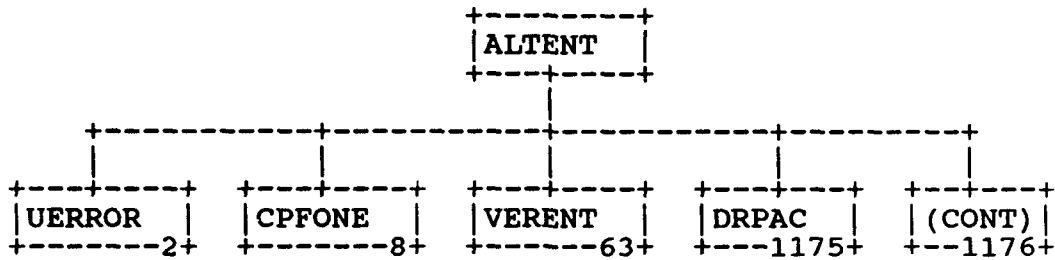
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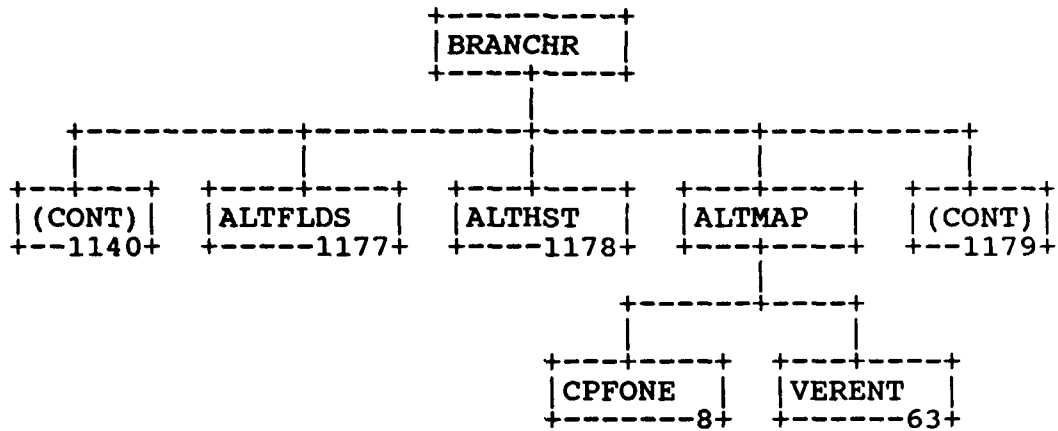
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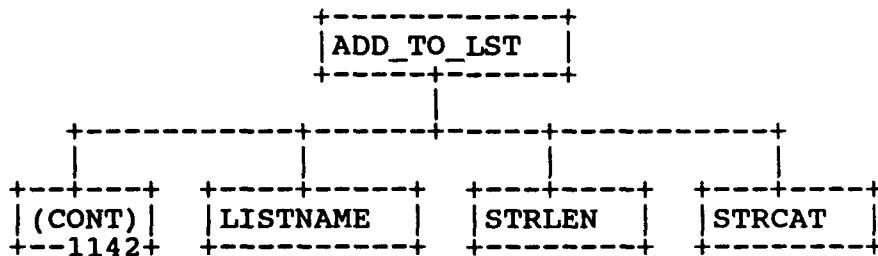
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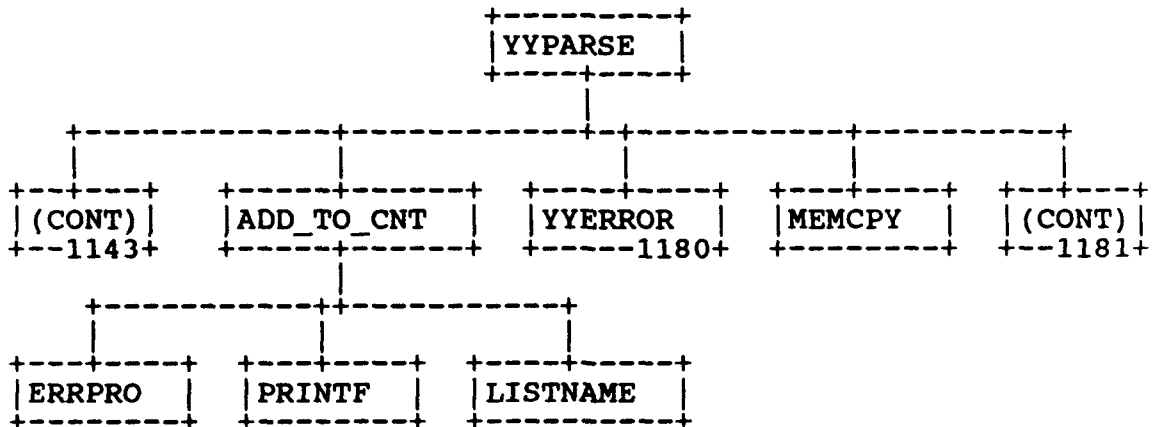
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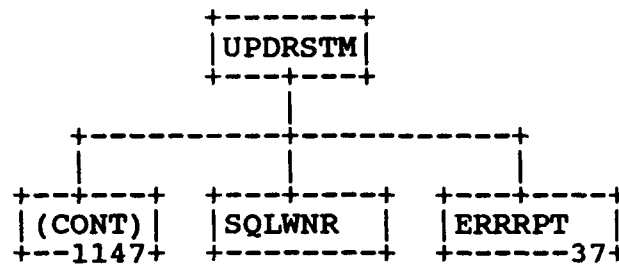
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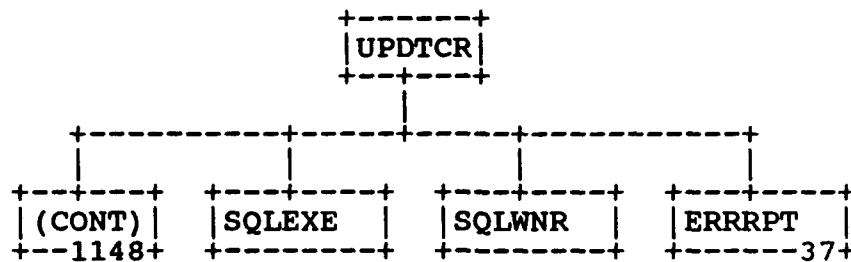
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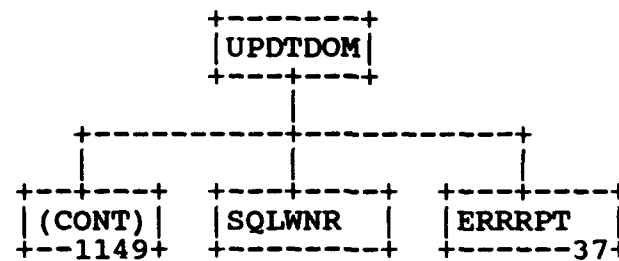
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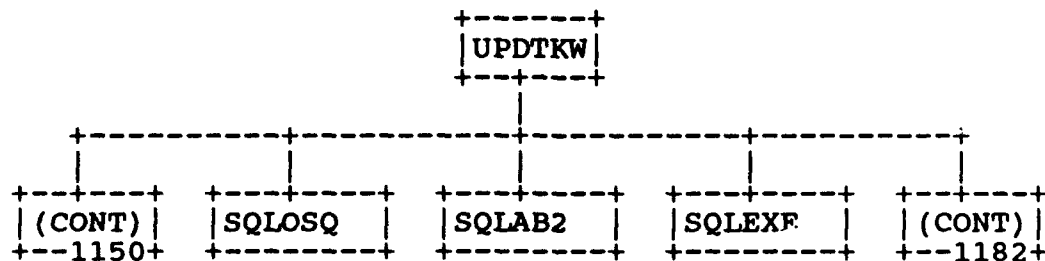
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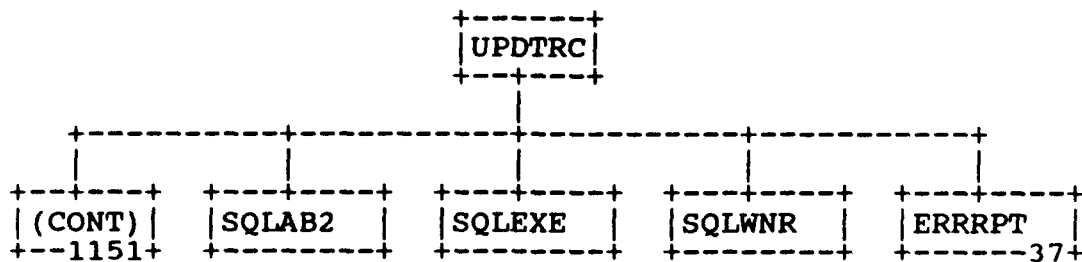
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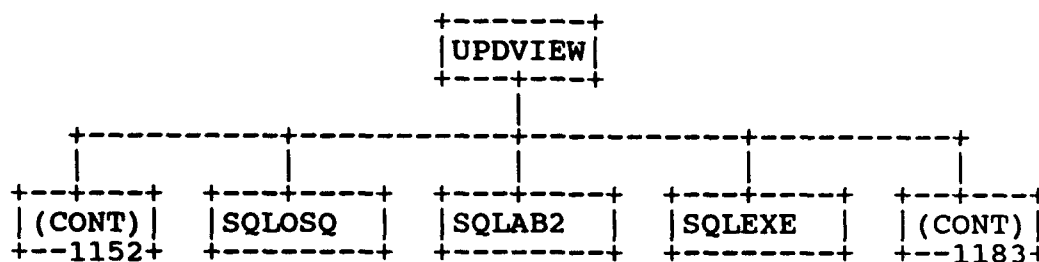
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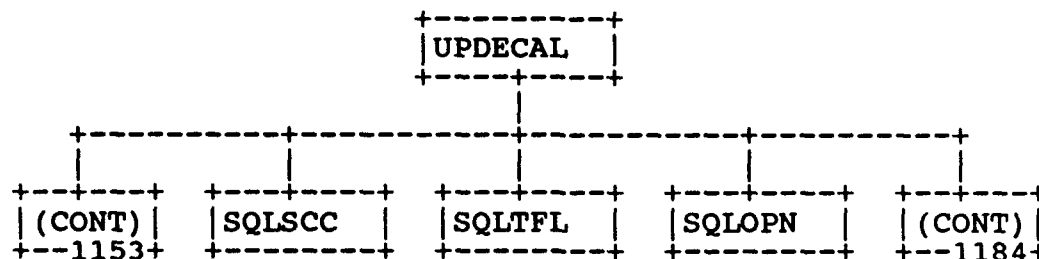
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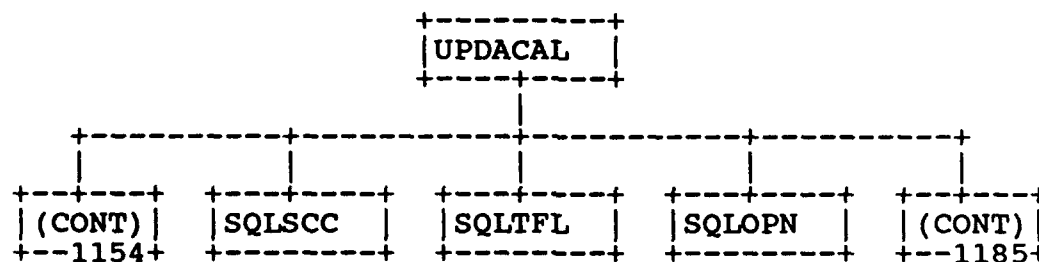
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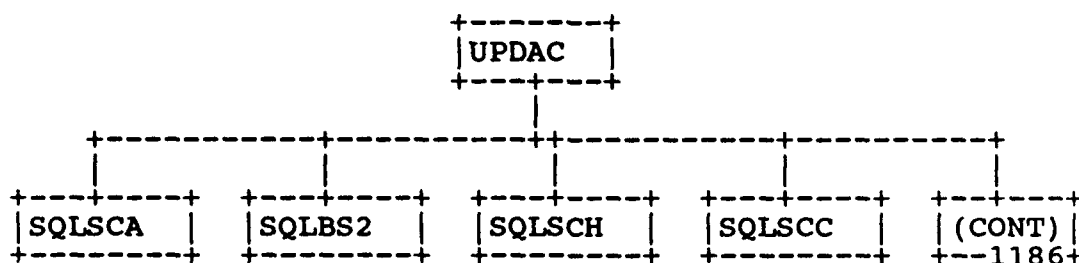
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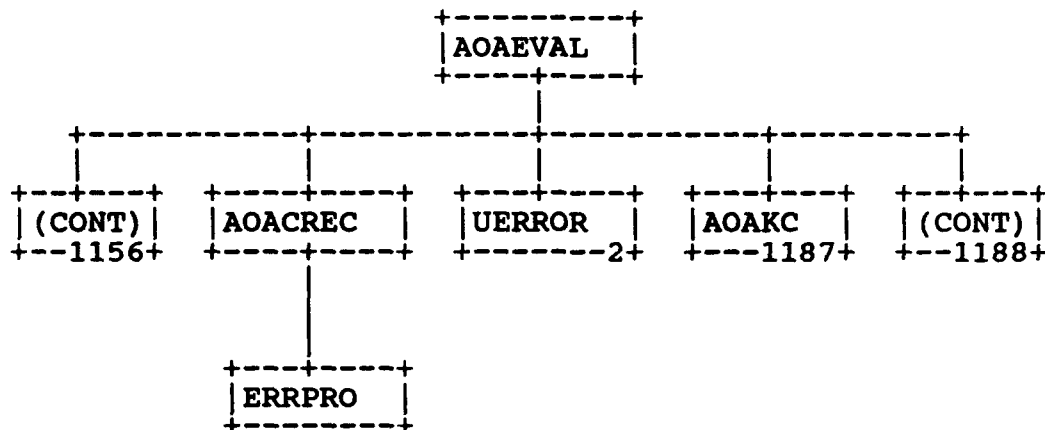
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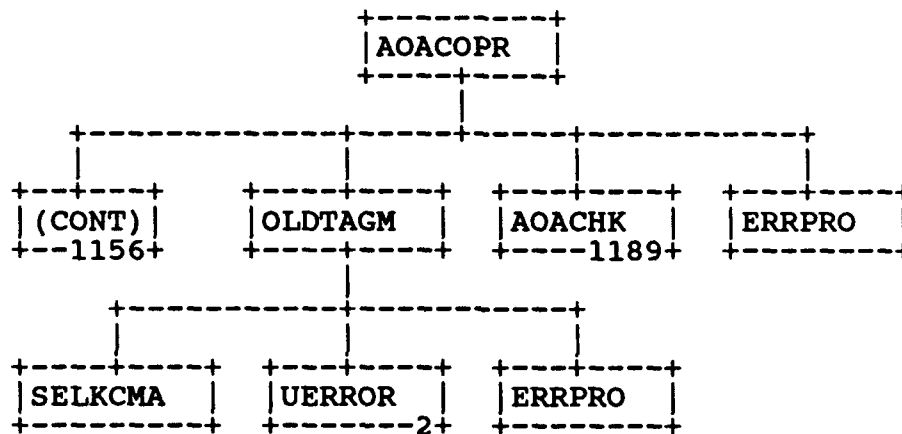
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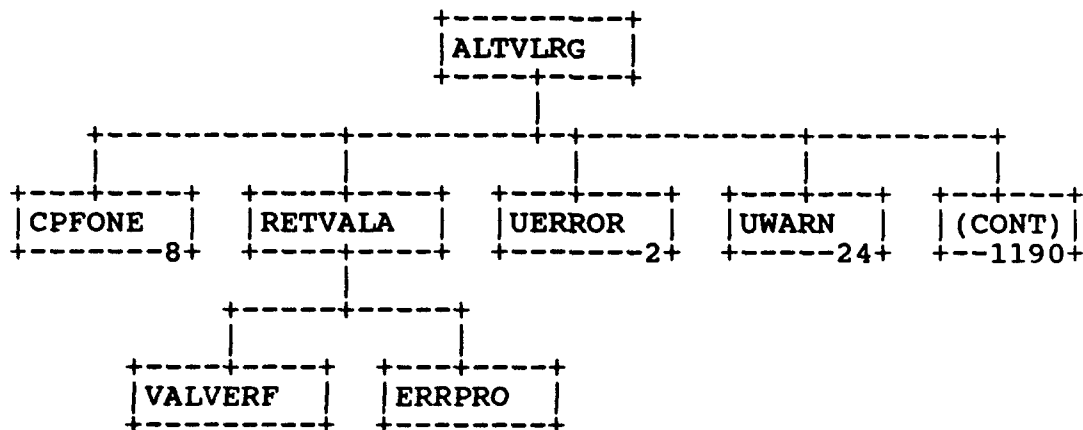
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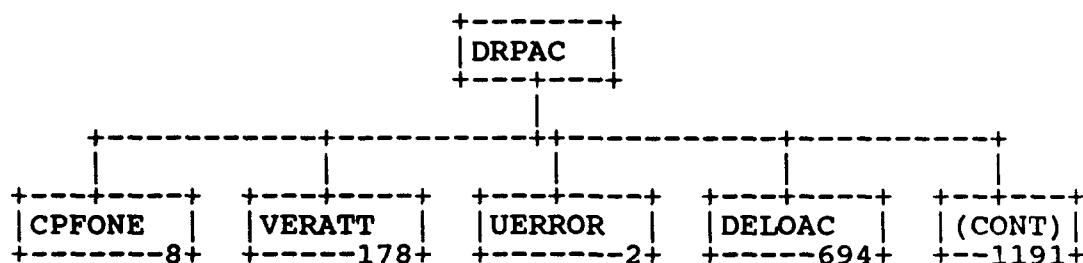
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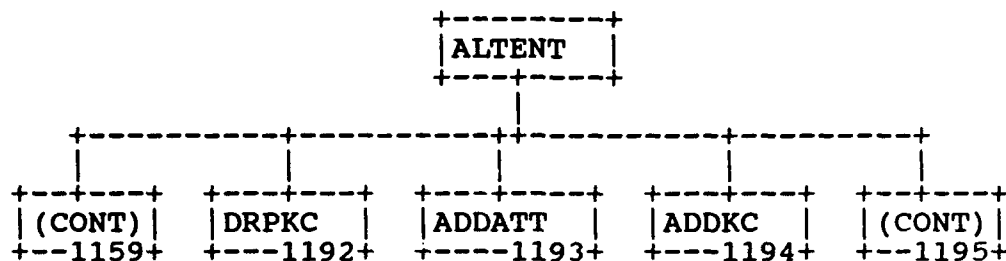
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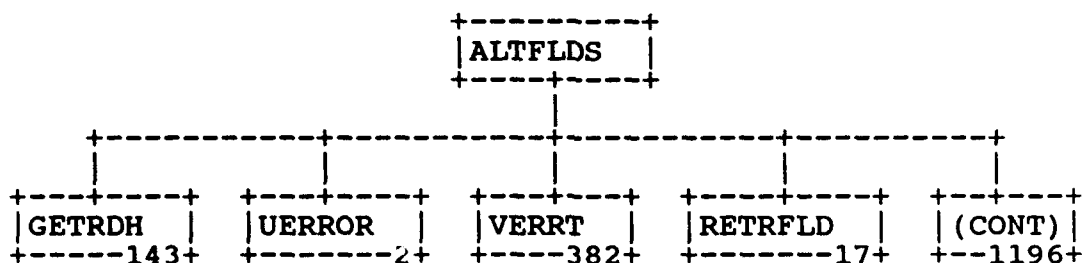
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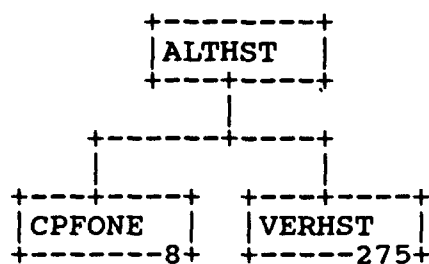
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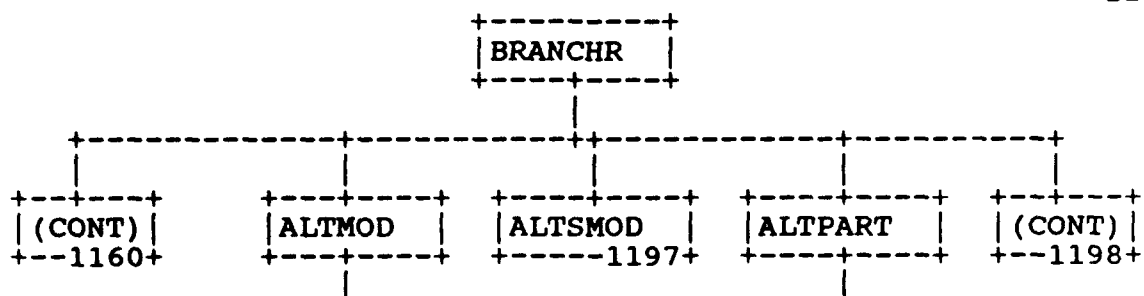
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1178



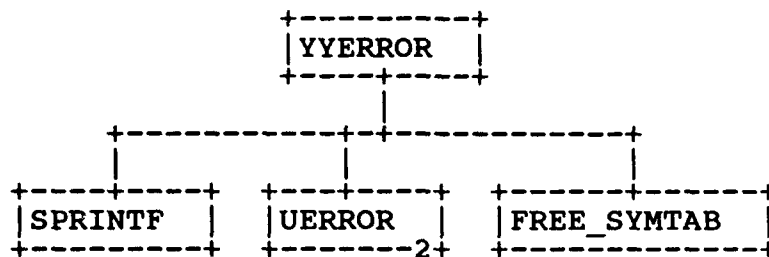
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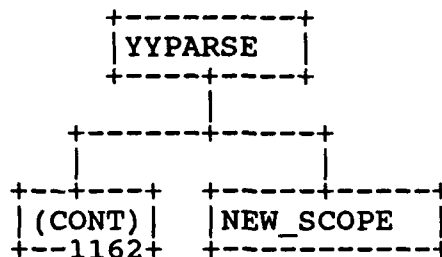
PS 620341100
30 September 1990

CPHONE	VERMOD	UERROR	HPNLOOK
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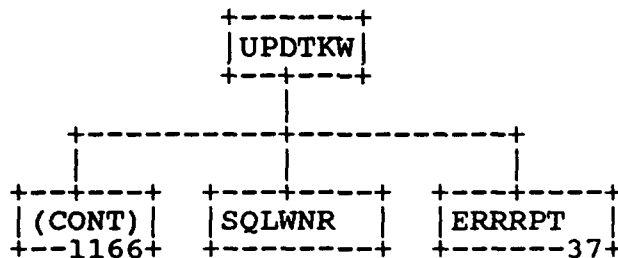
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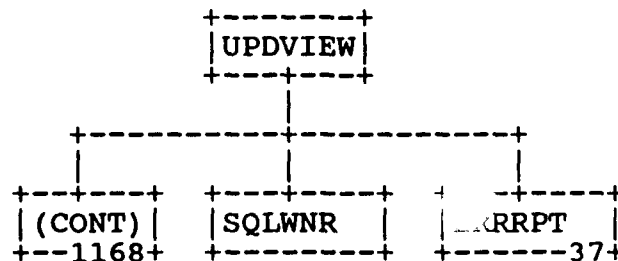
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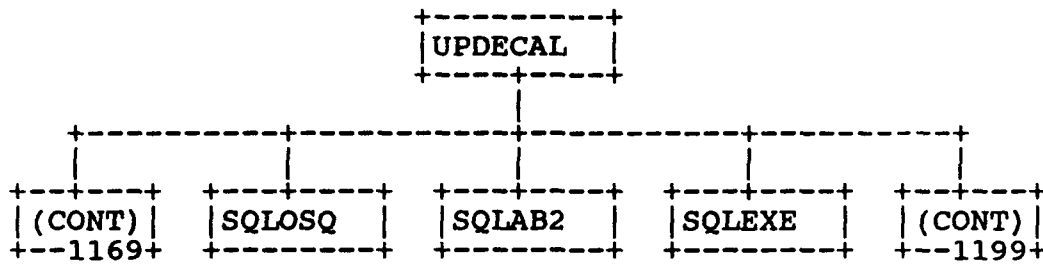
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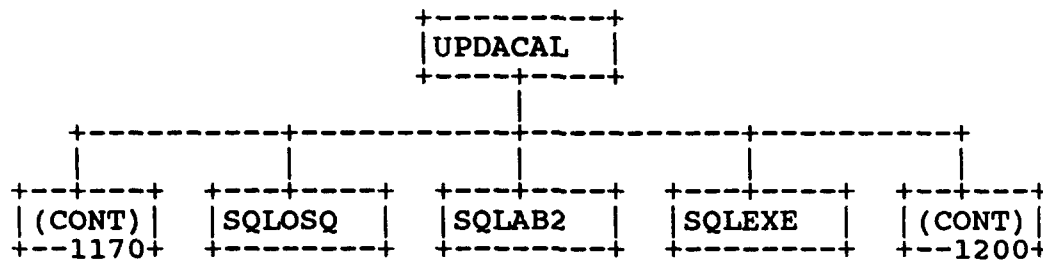
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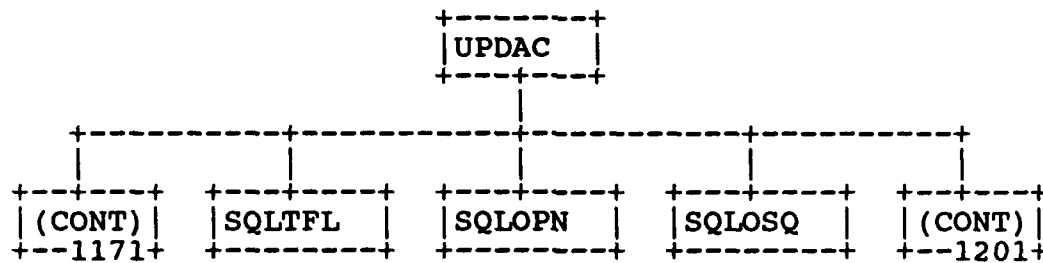
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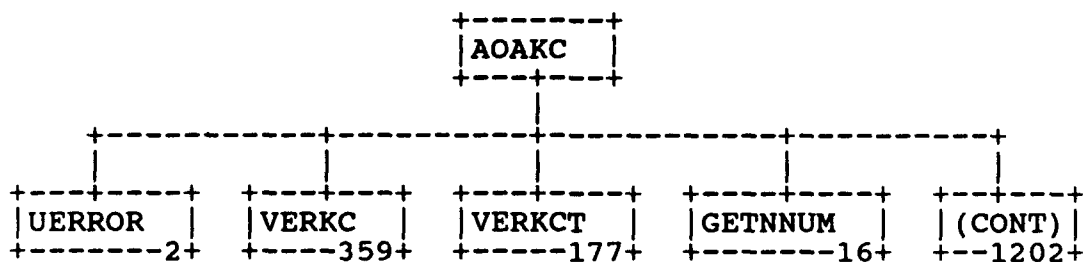
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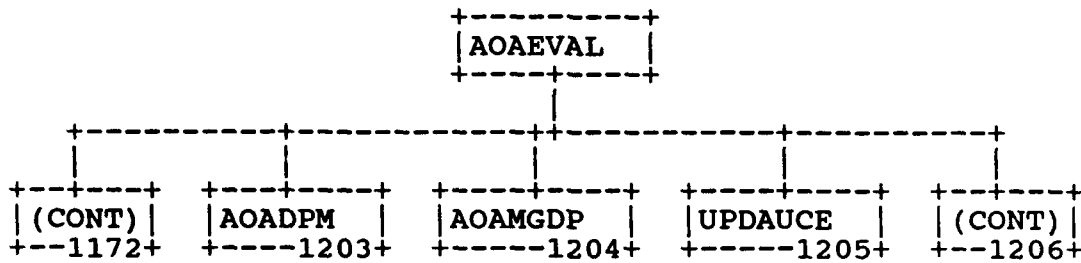
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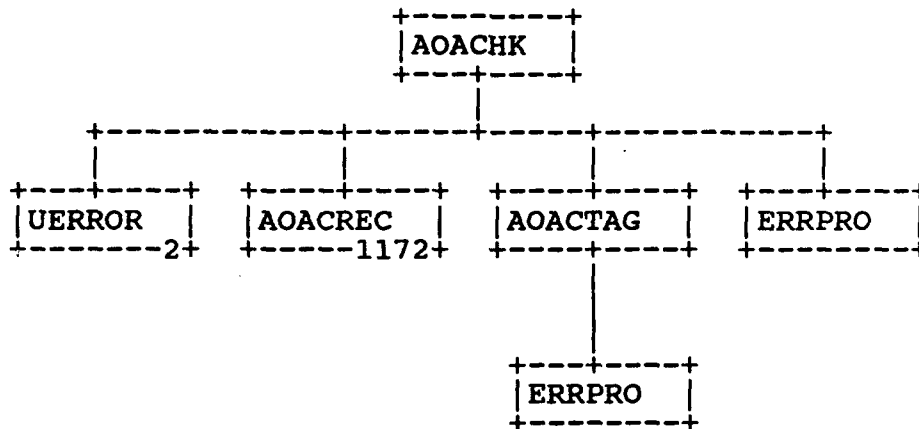
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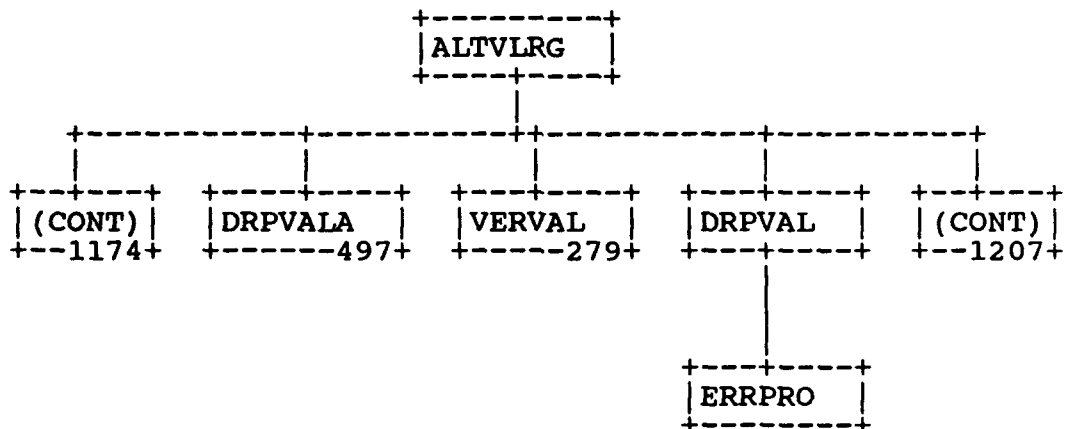
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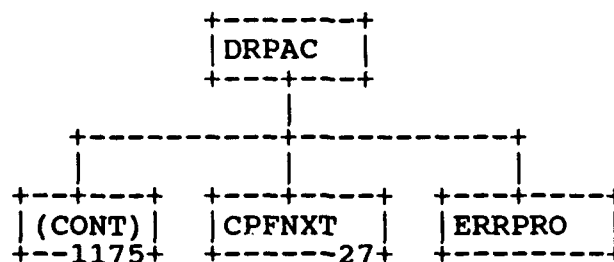
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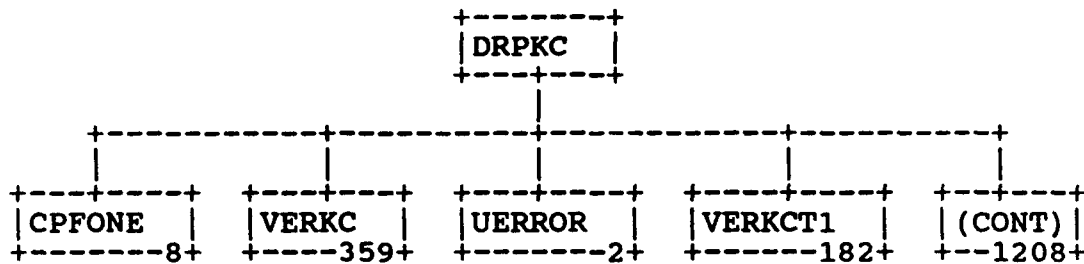
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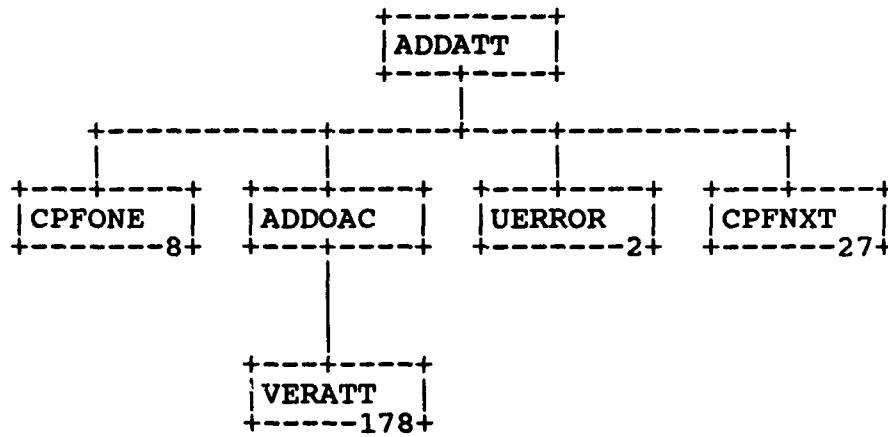
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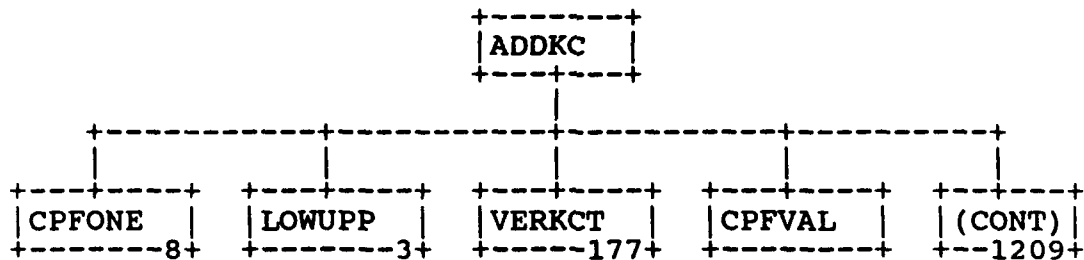
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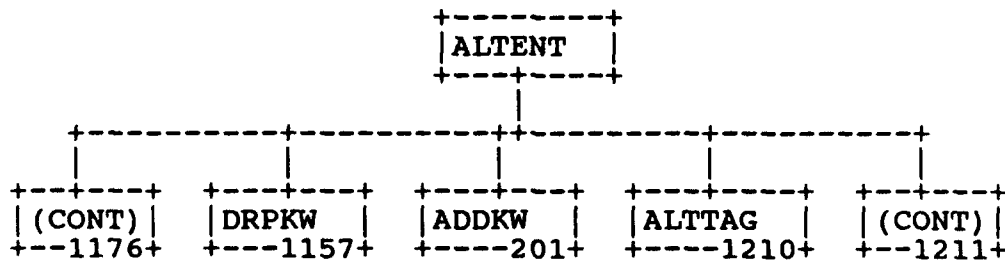
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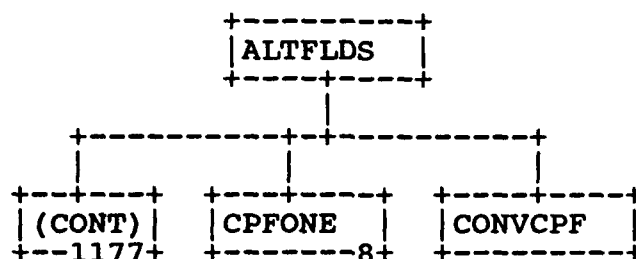
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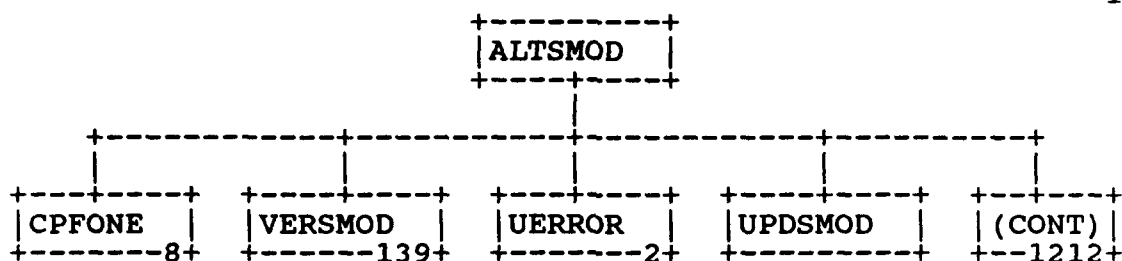
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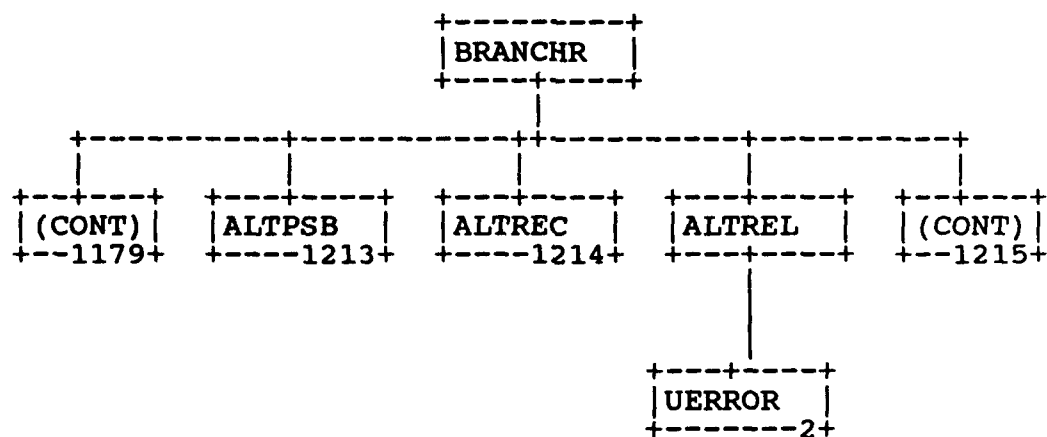
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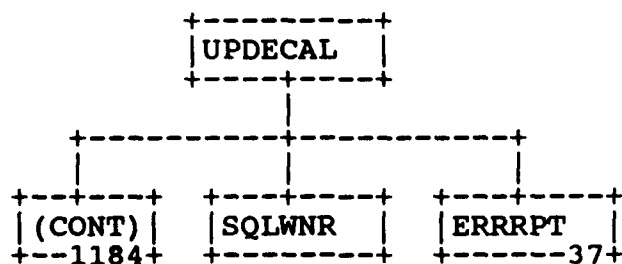
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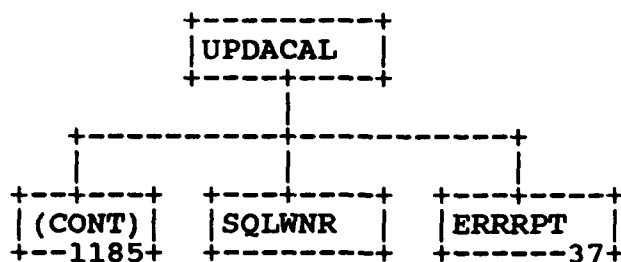
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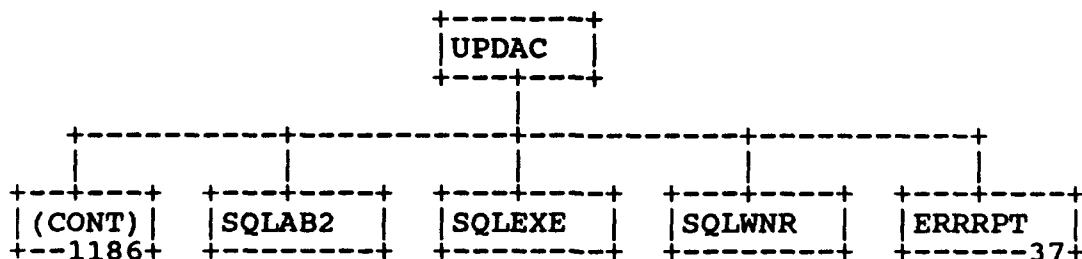
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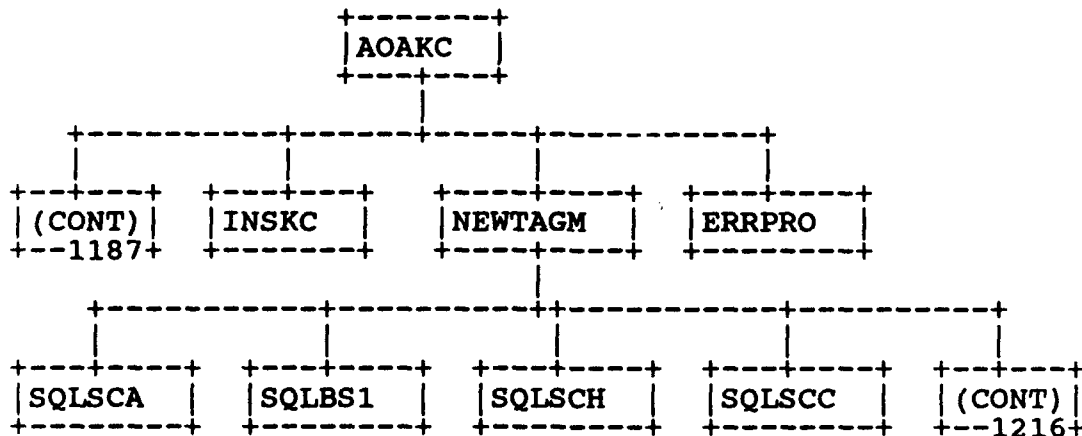
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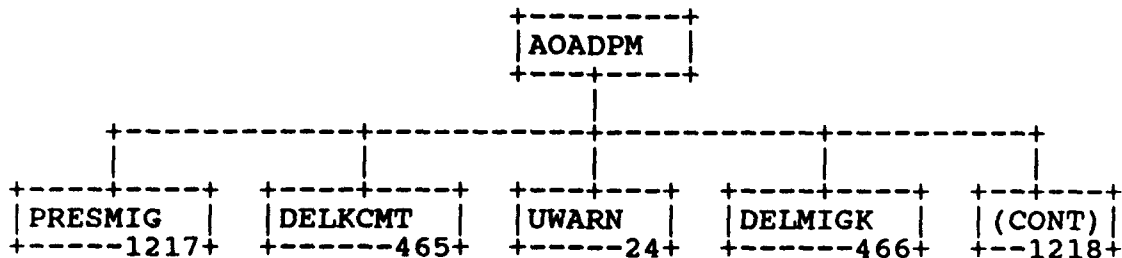
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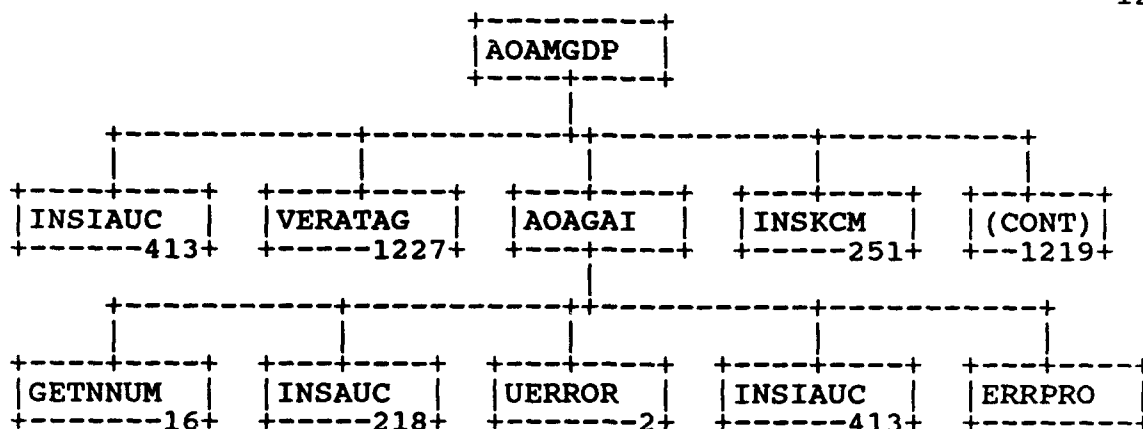
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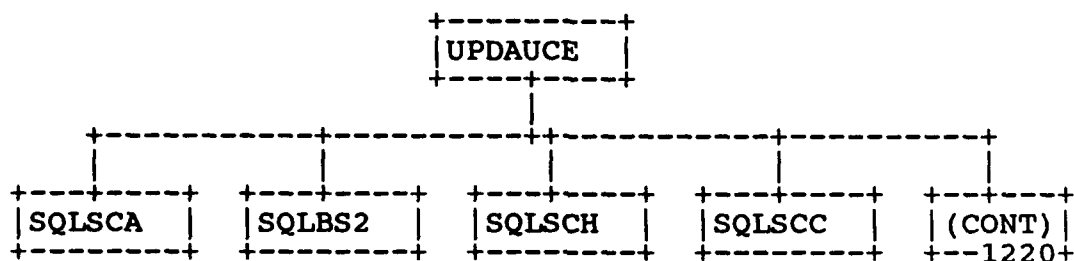
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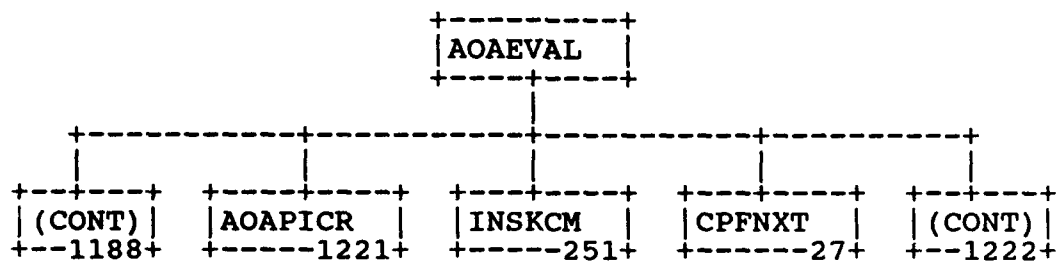
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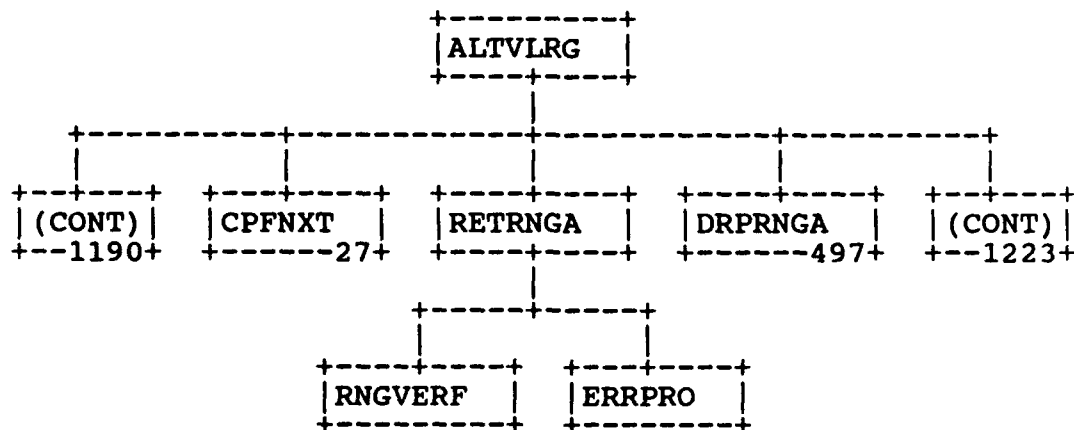
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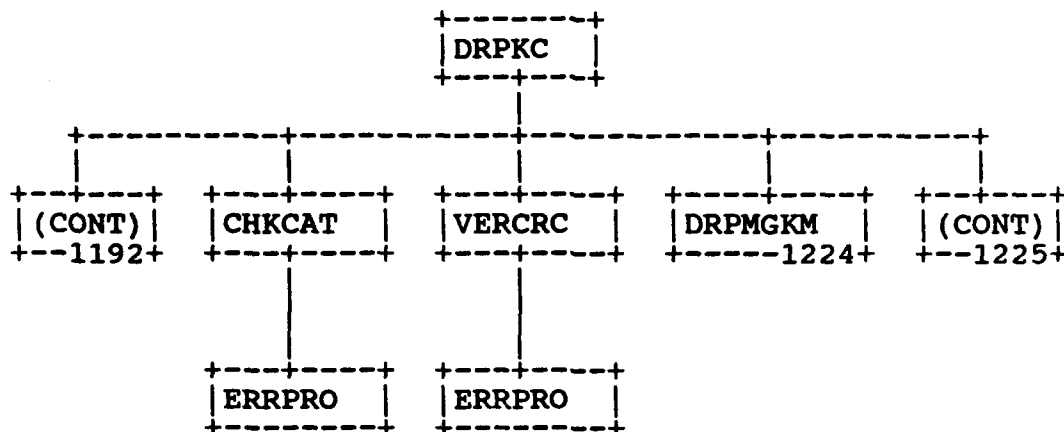
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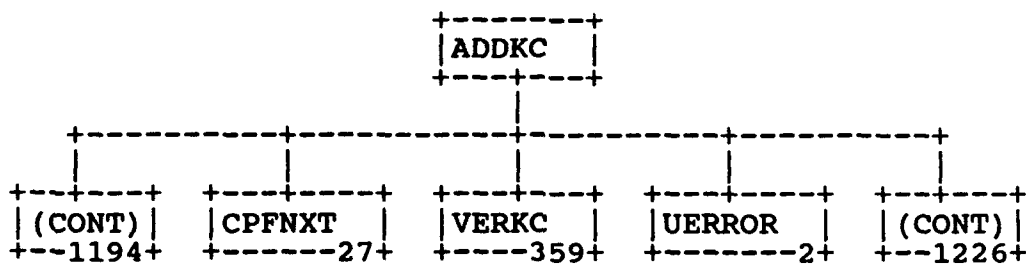
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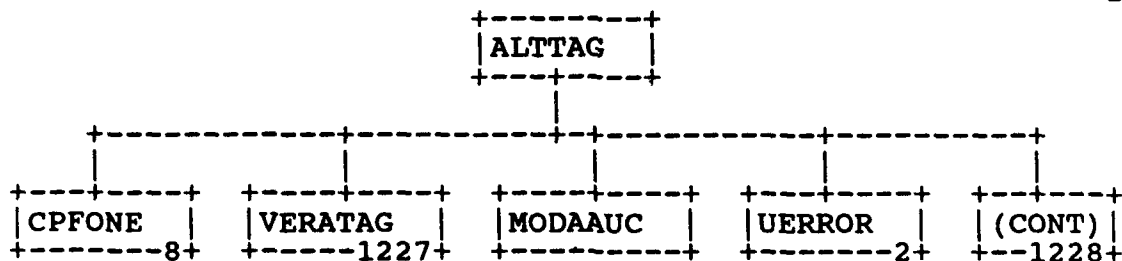
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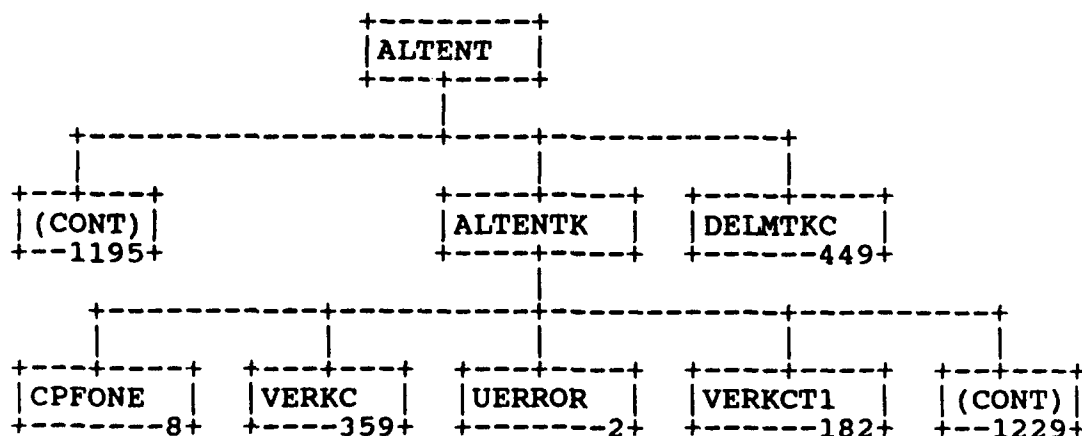
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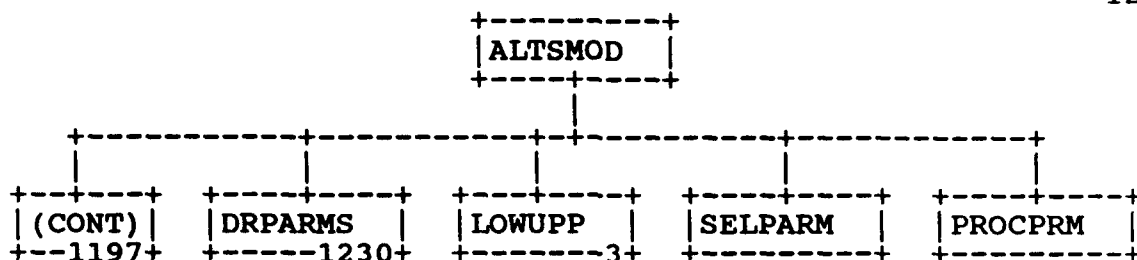
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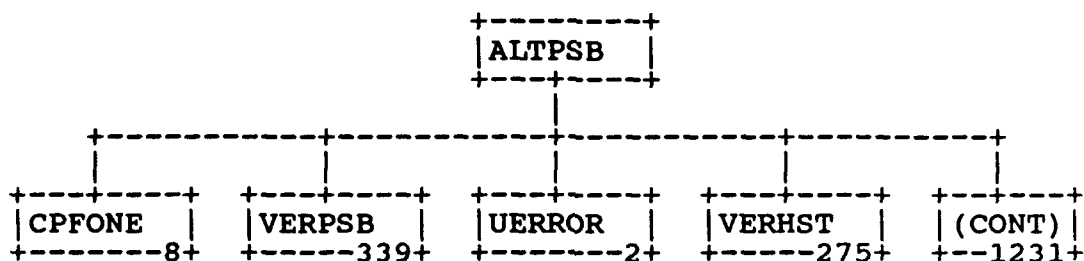
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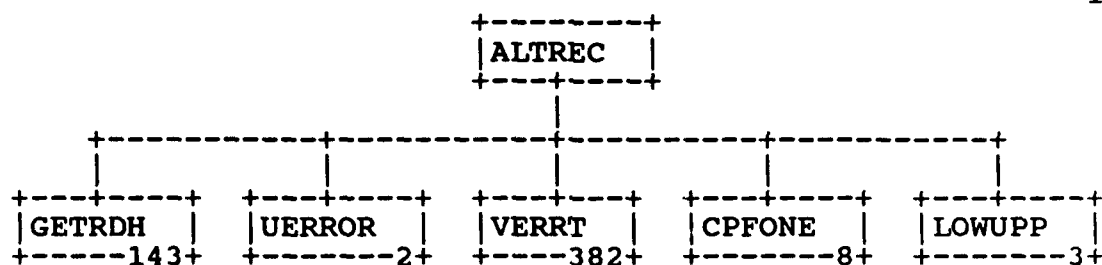
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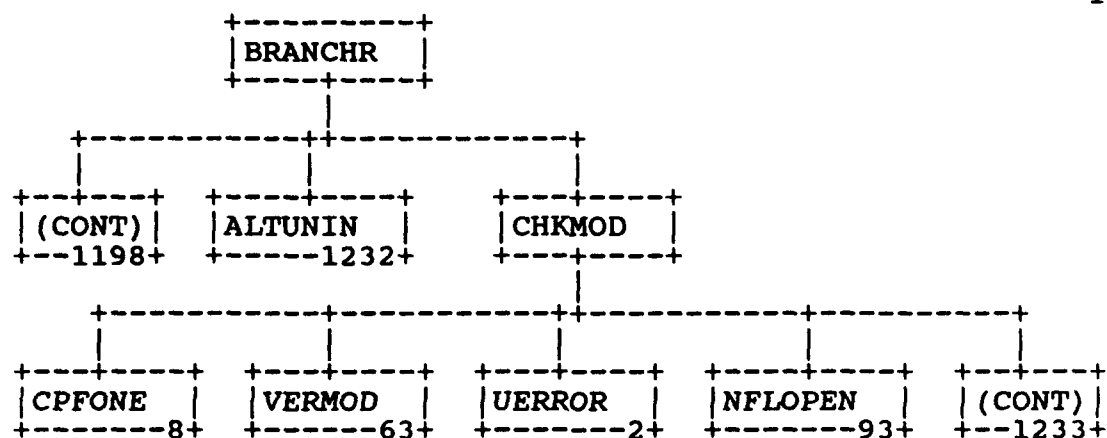
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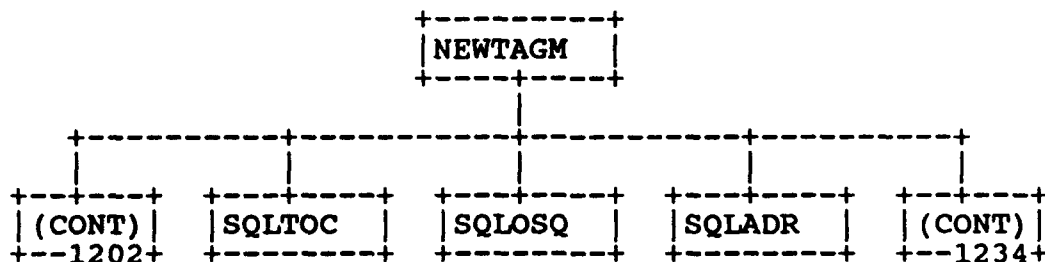
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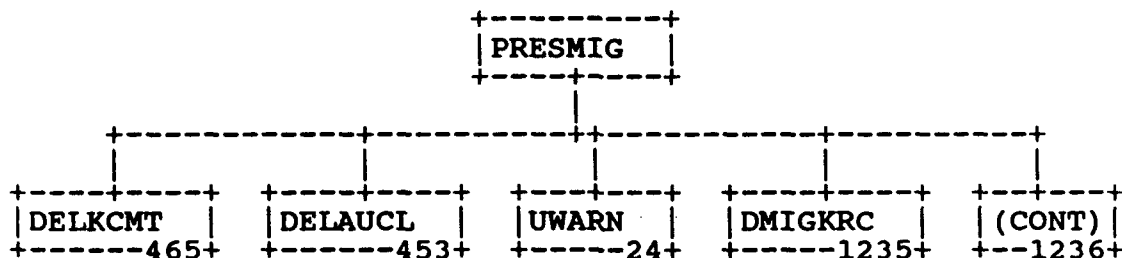
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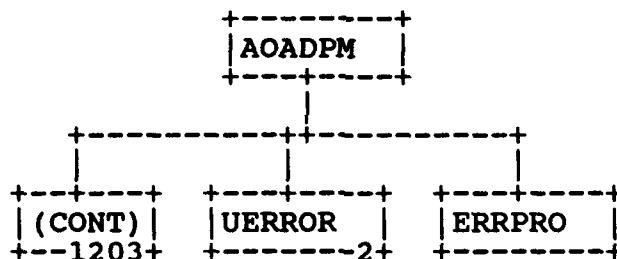
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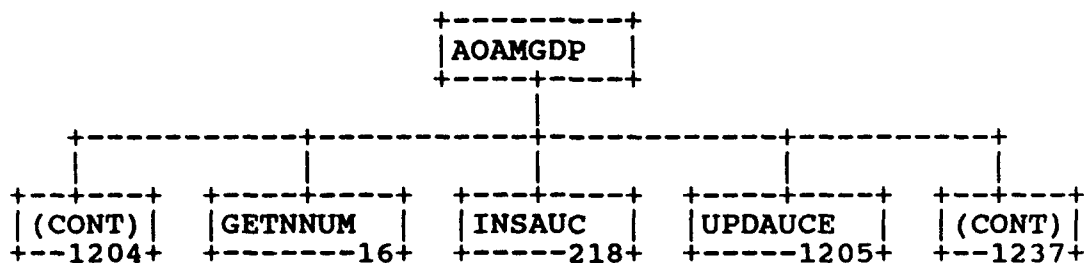
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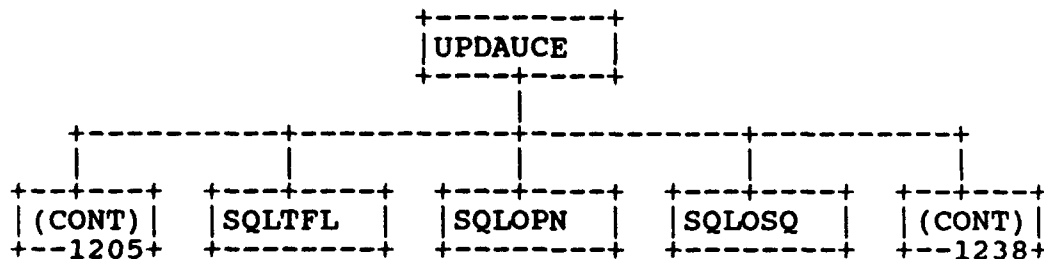
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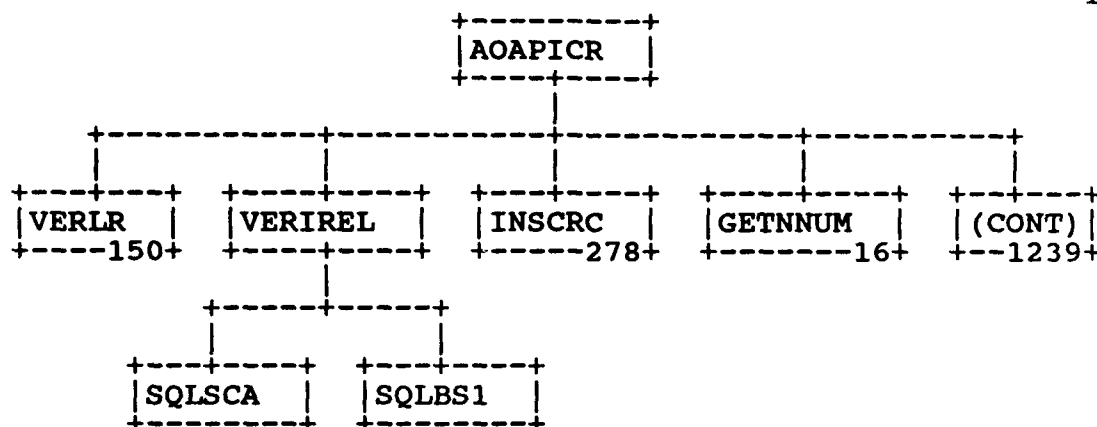
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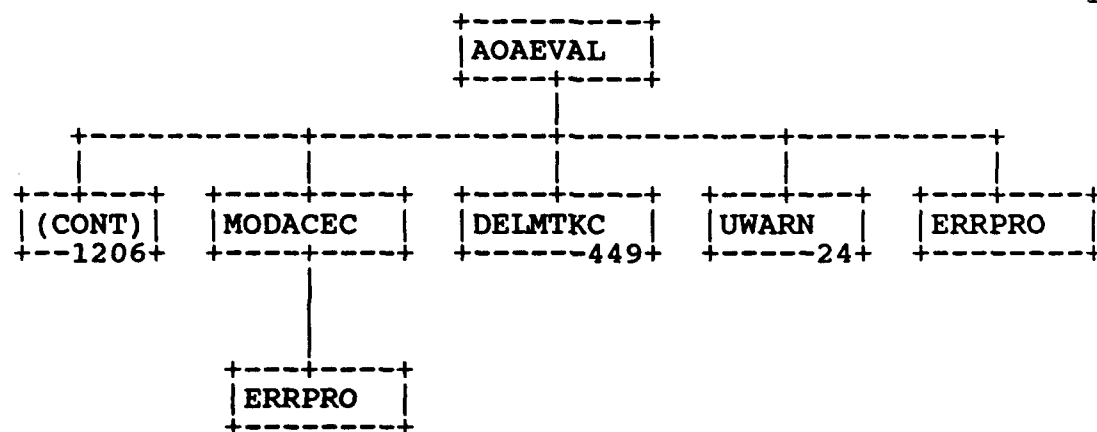
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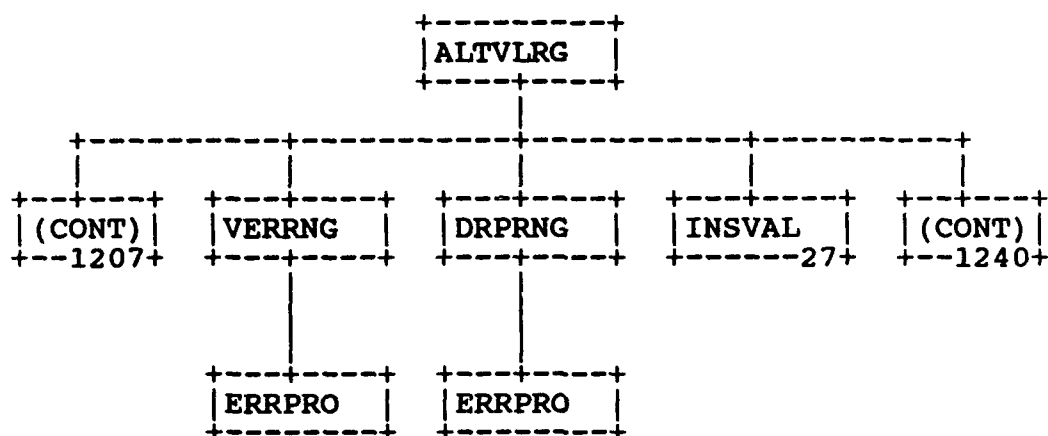
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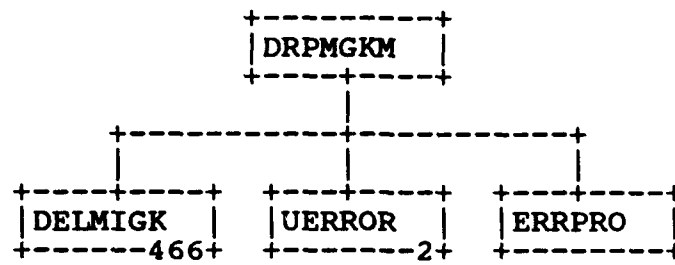
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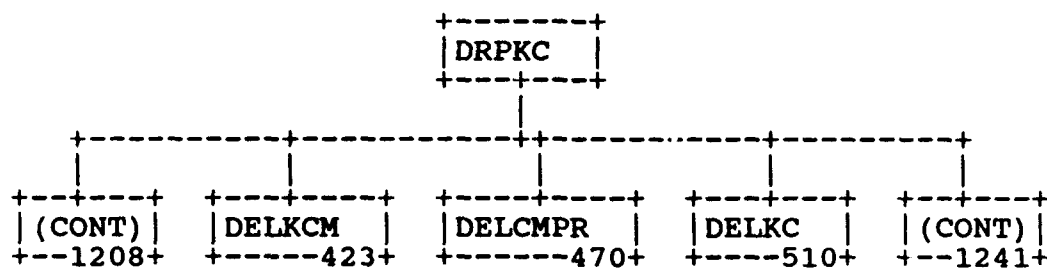
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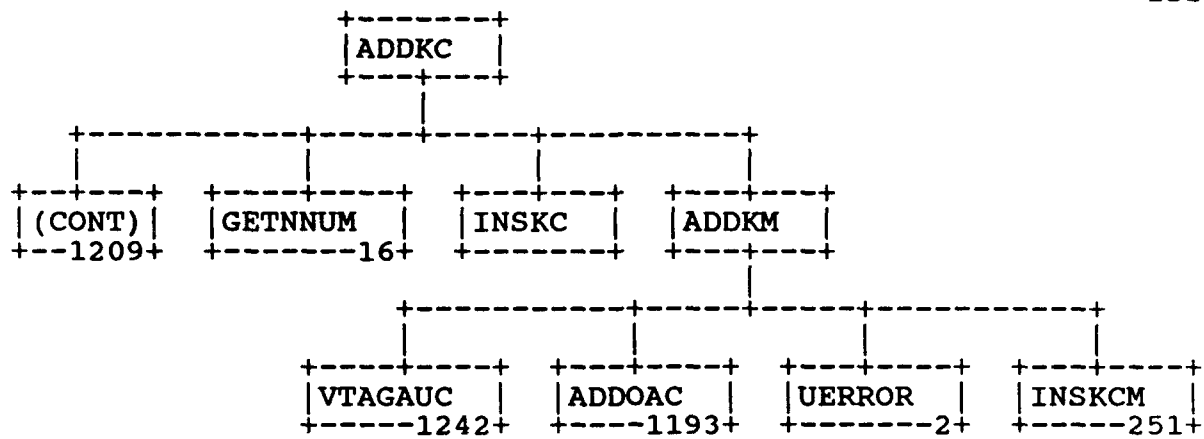
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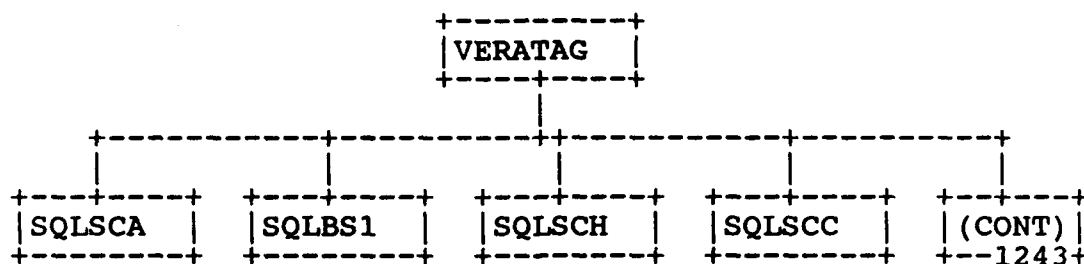
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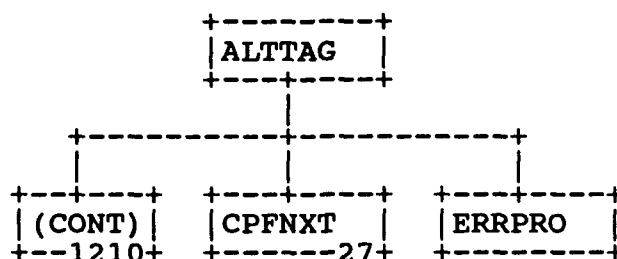
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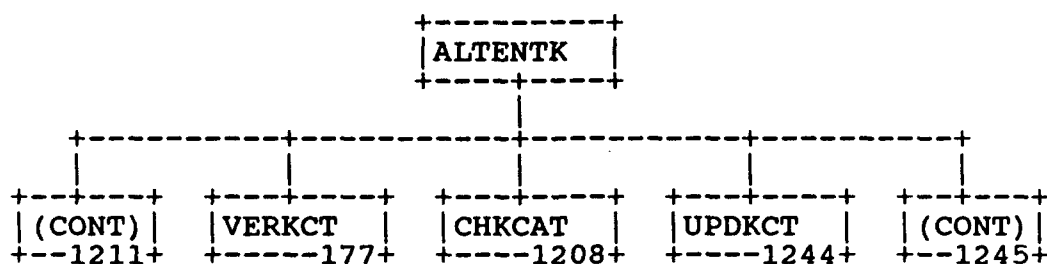
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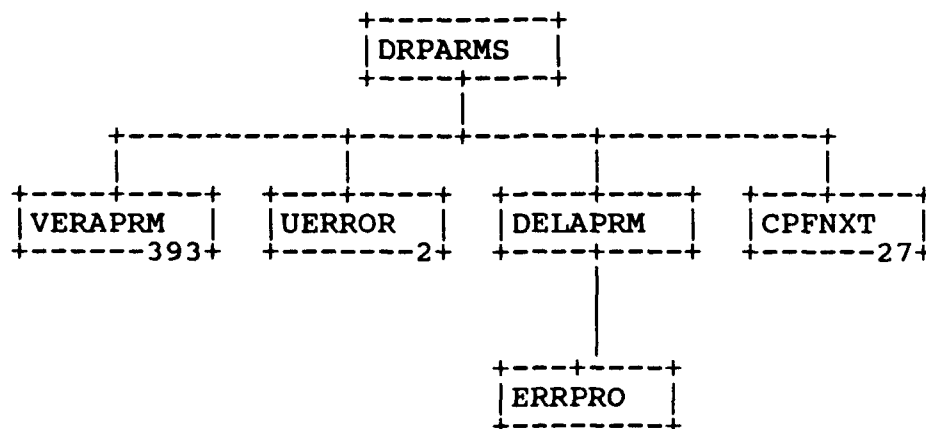
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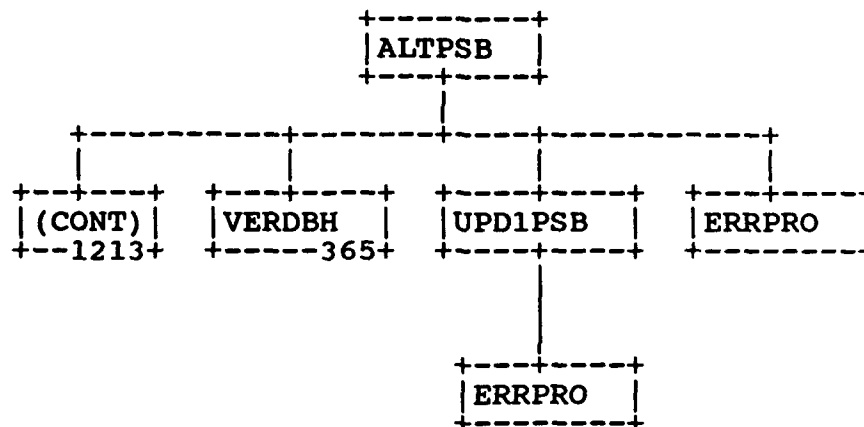
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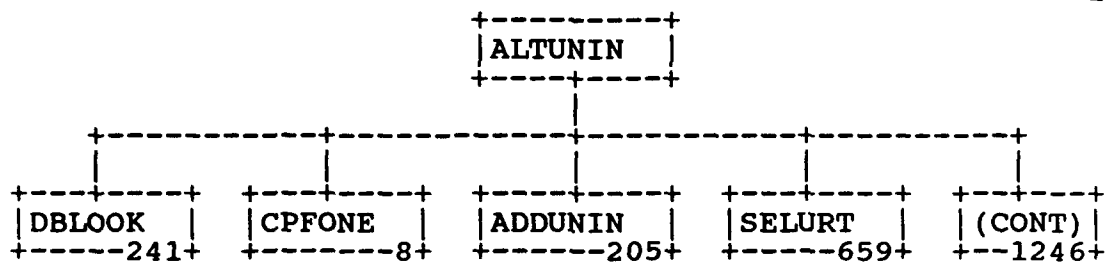
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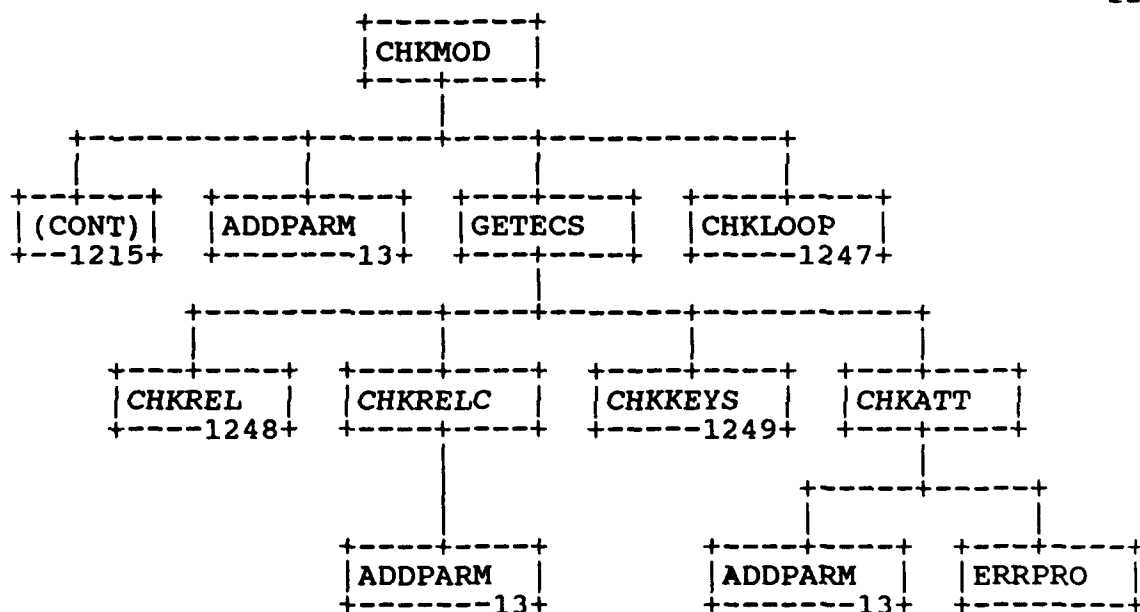
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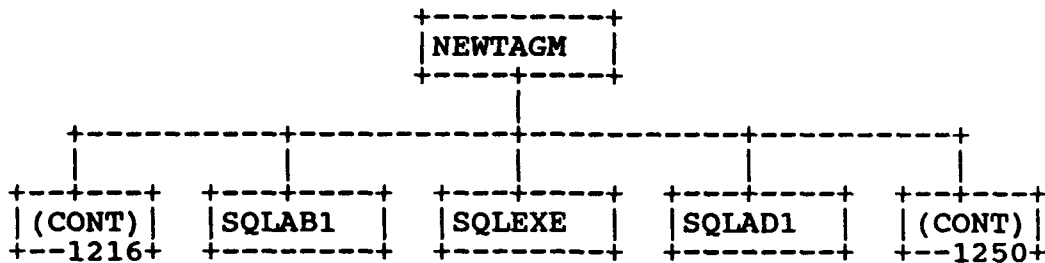
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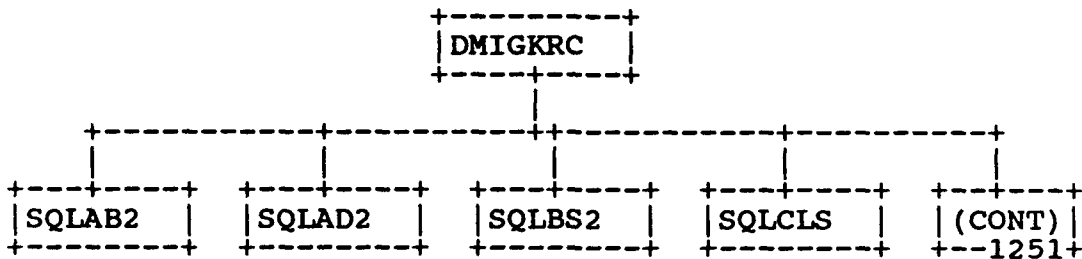
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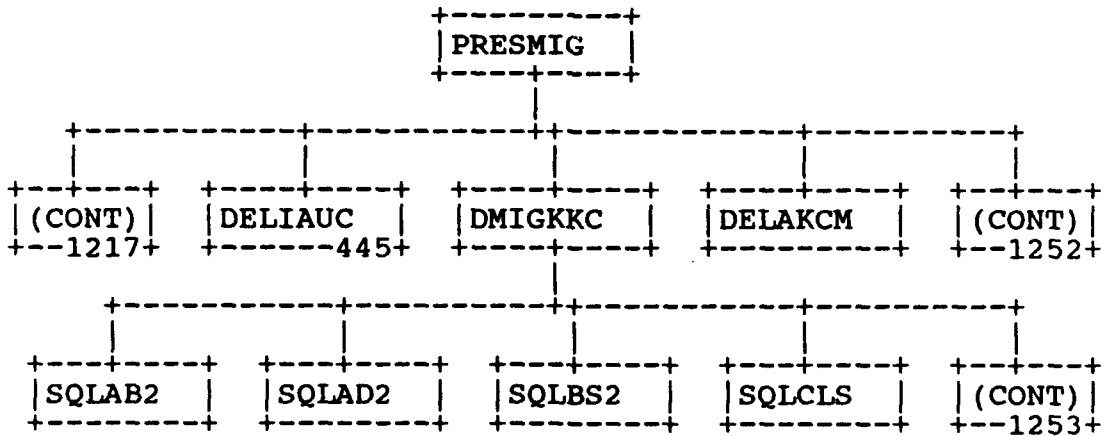
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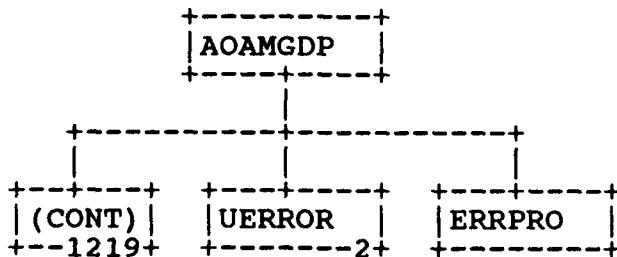
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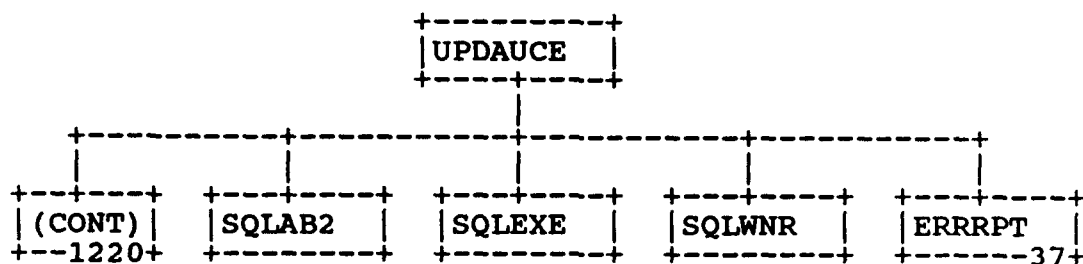
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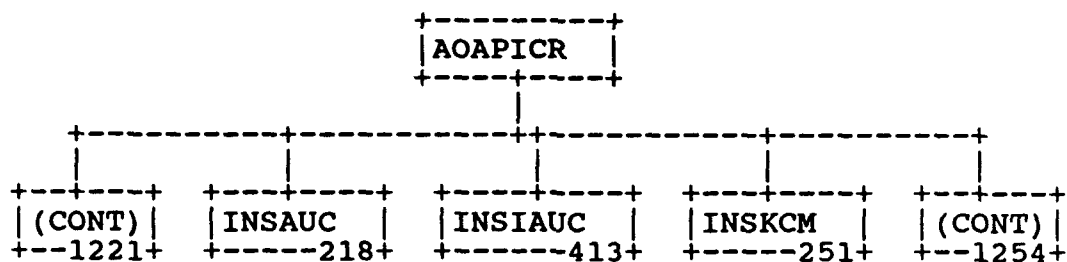
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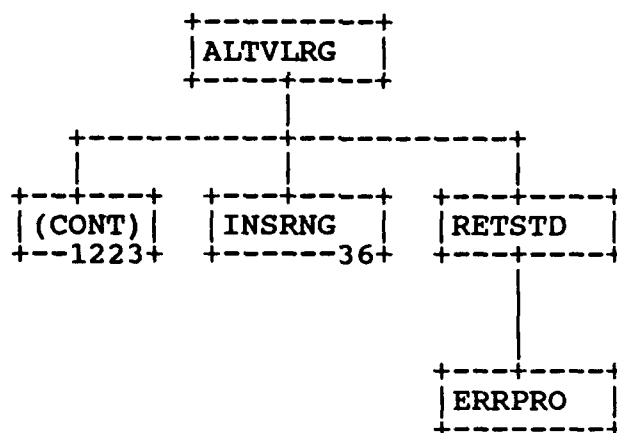
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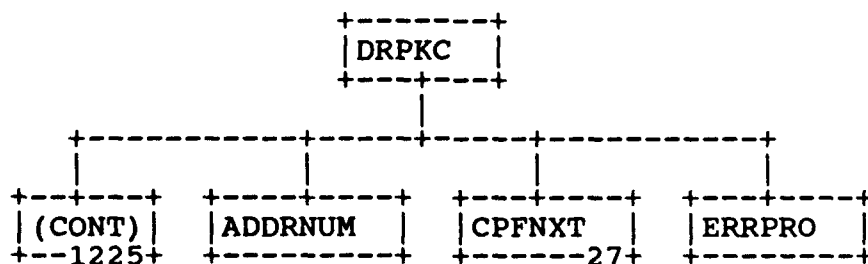
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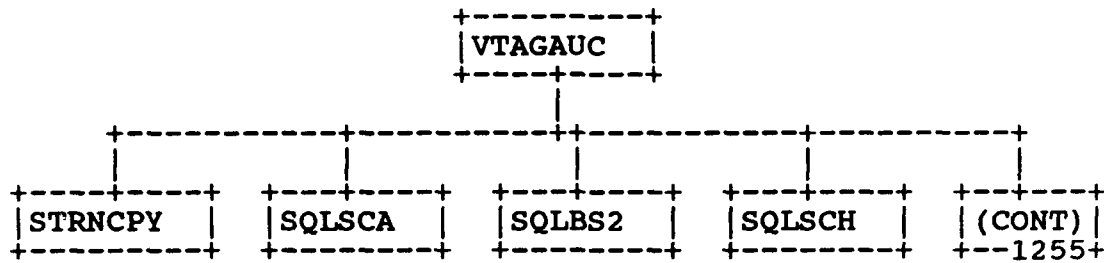
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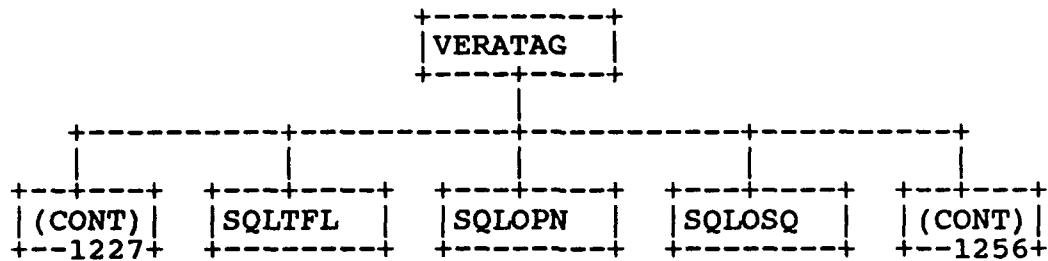
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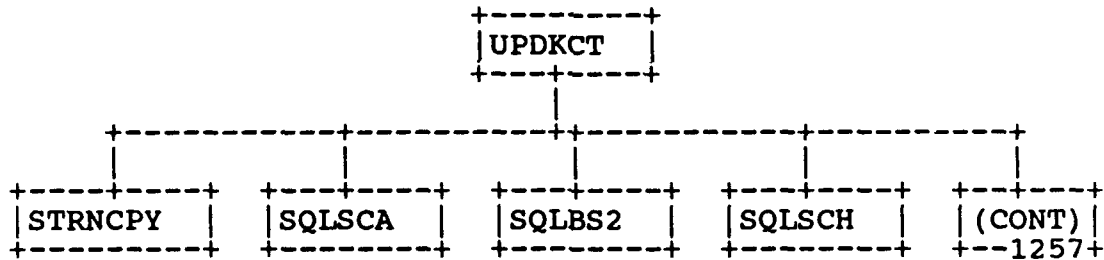
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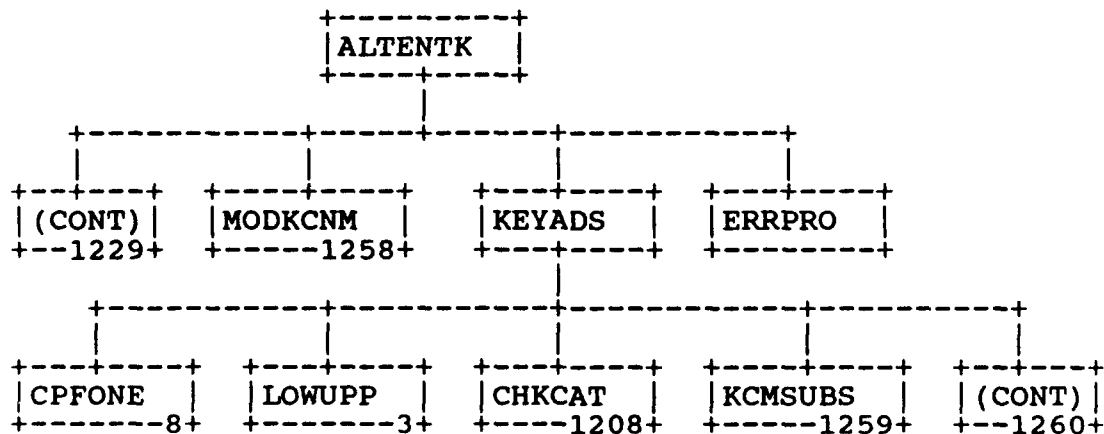
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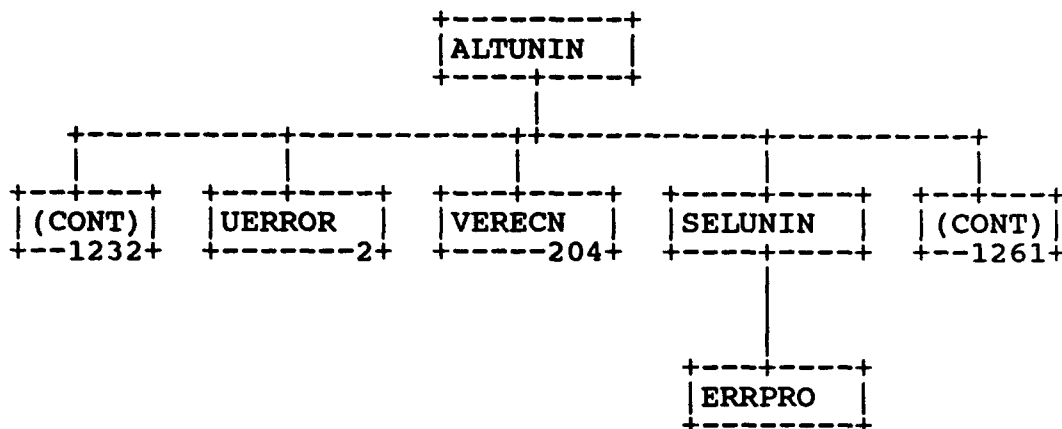
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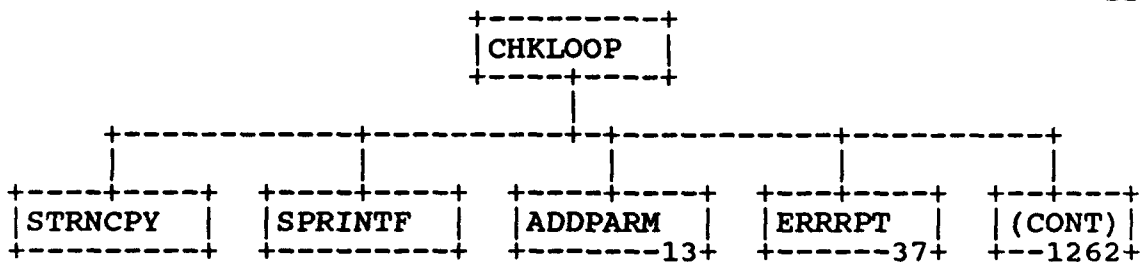
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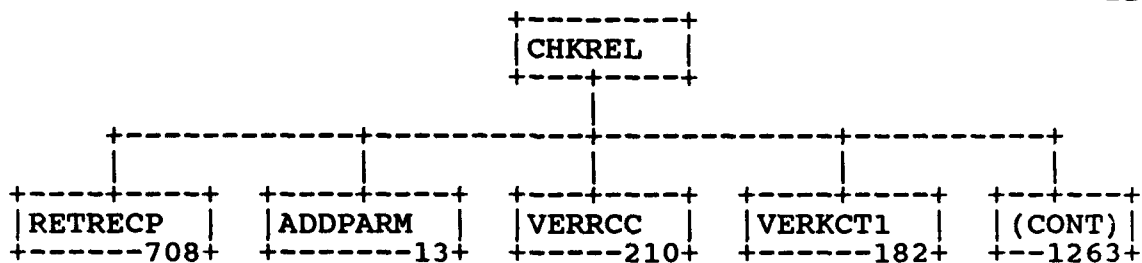
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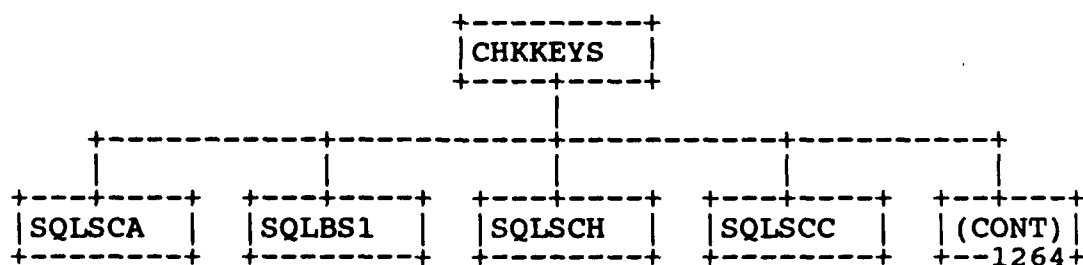
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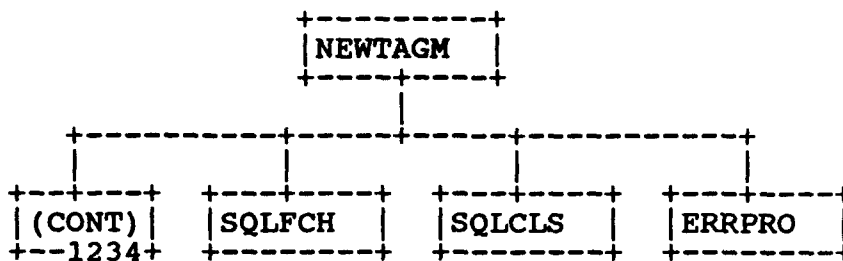
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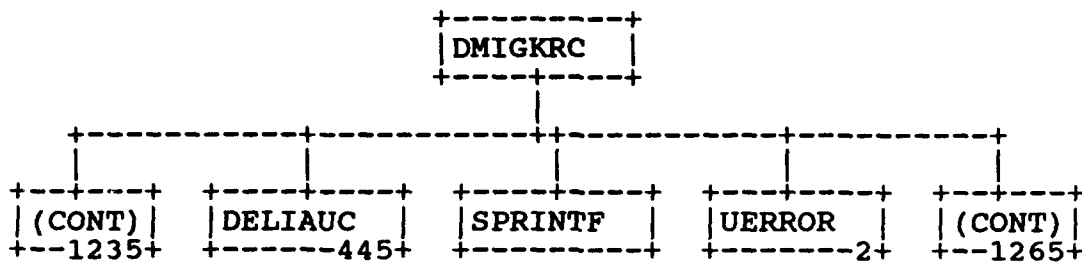
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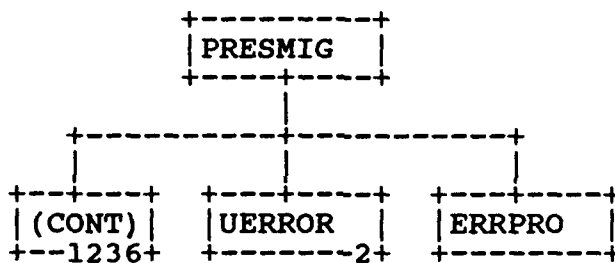
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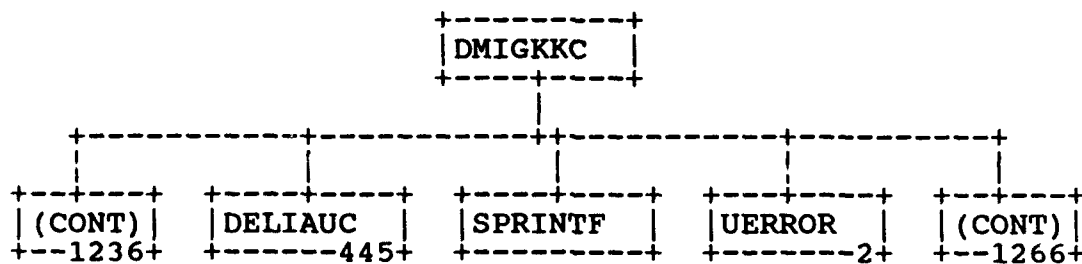
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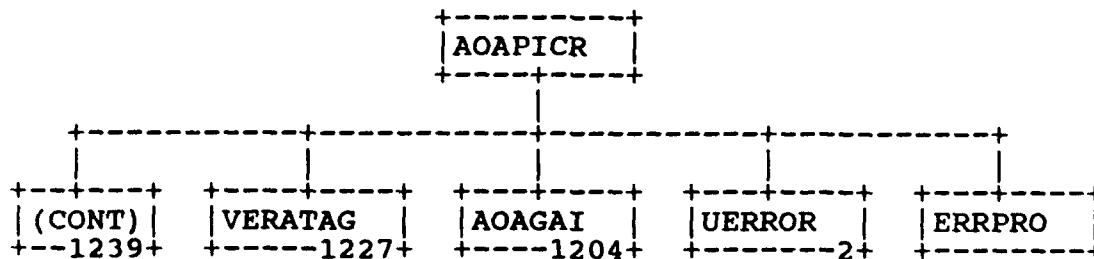
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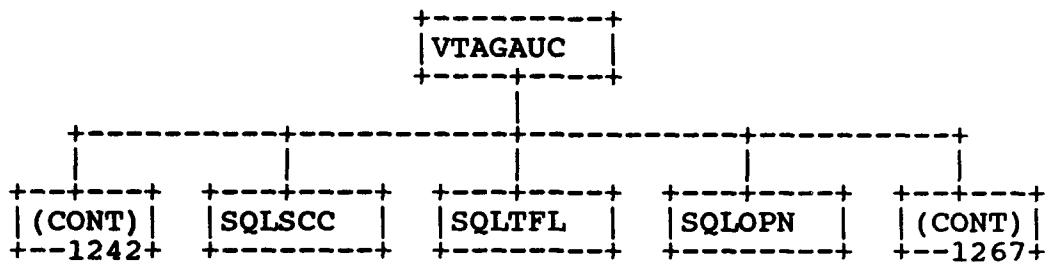
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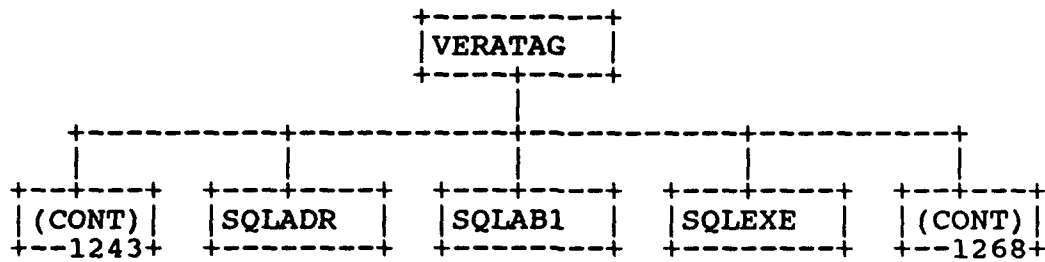
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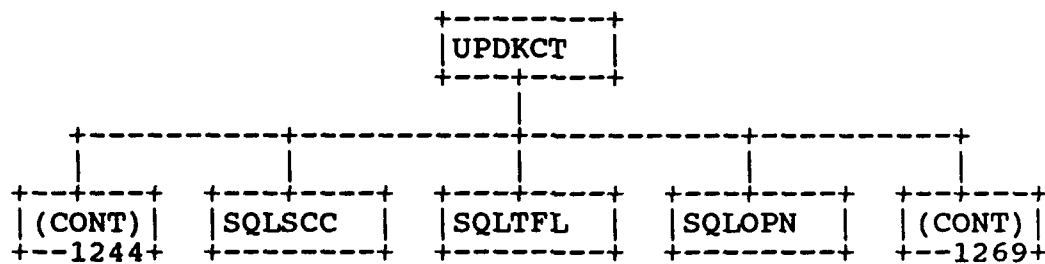
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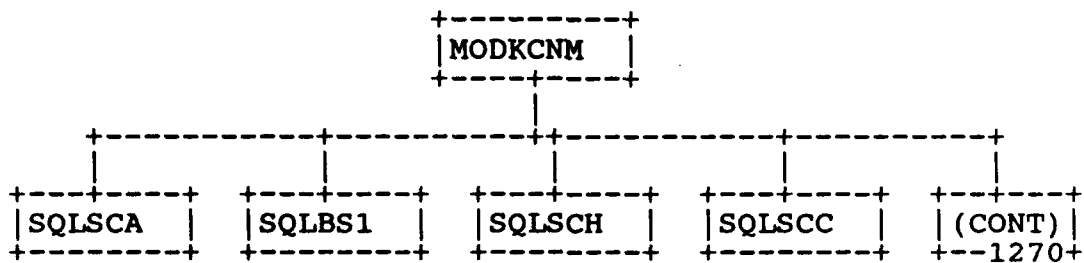
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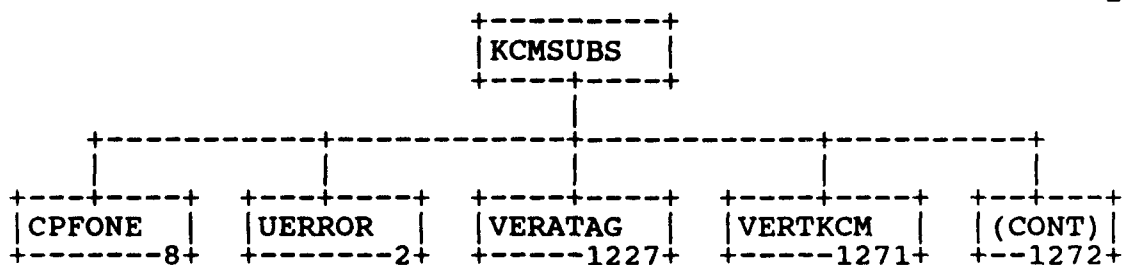
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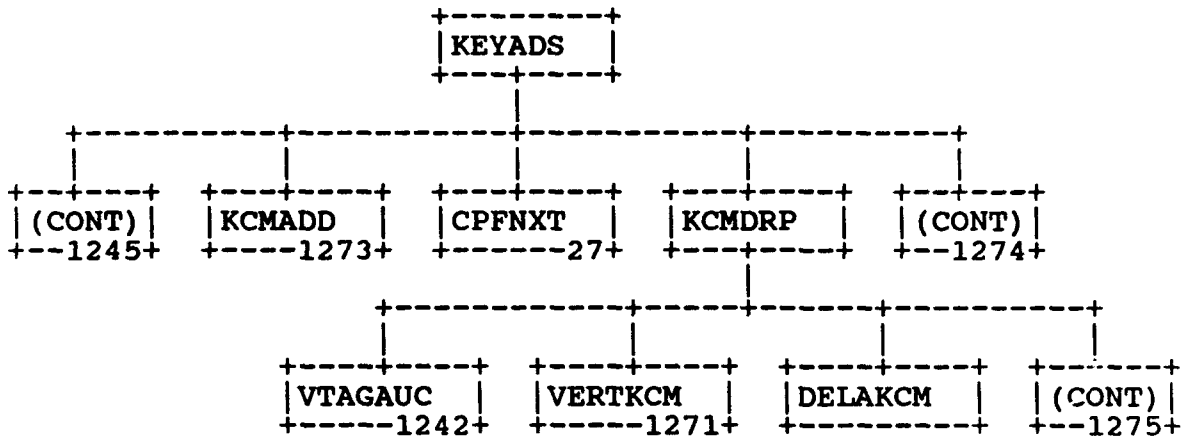
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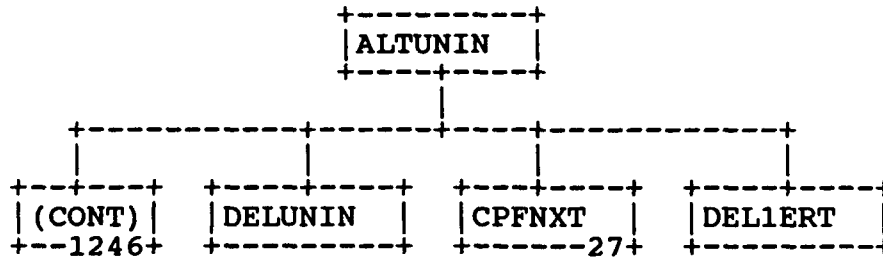
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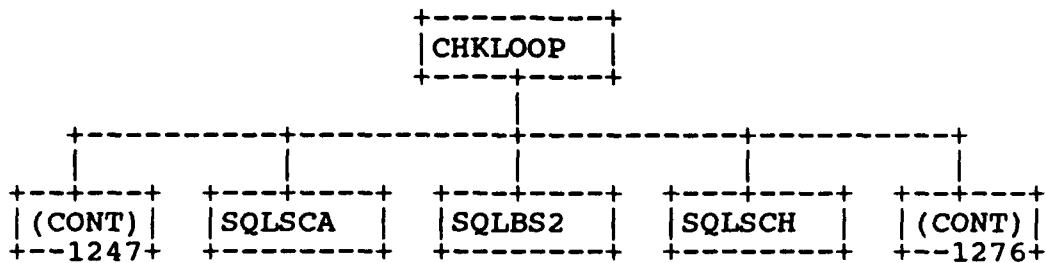
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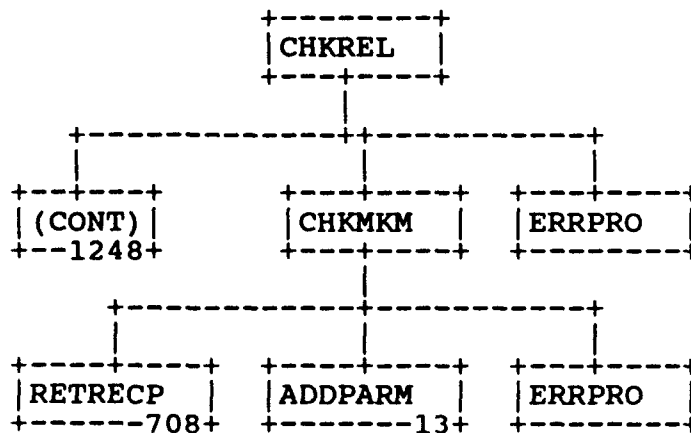
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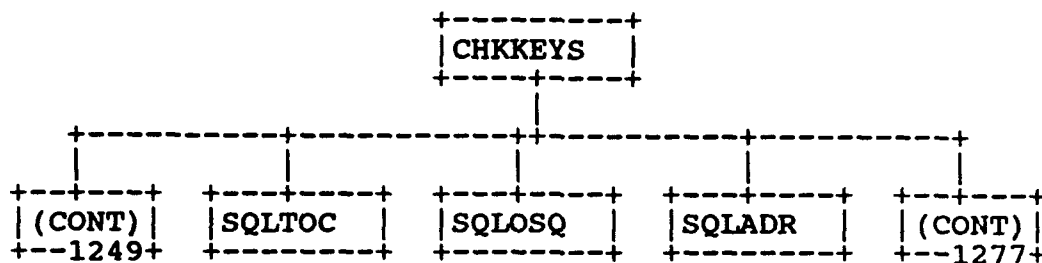
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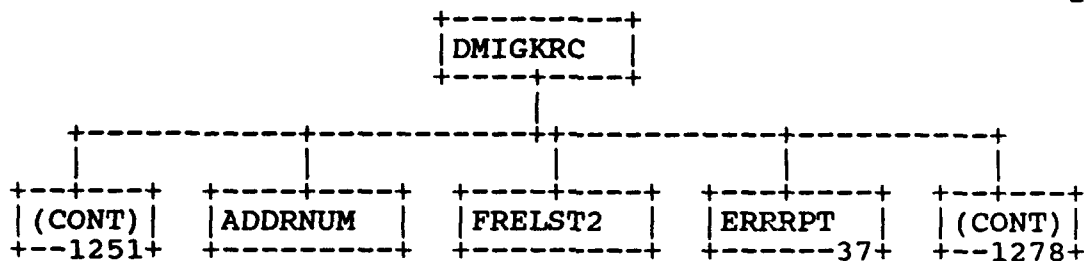
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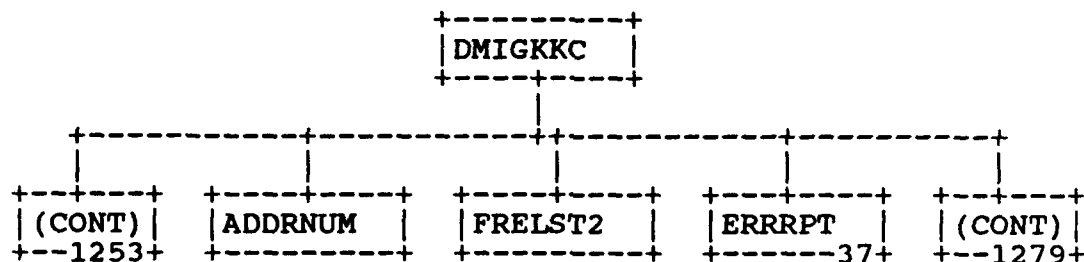
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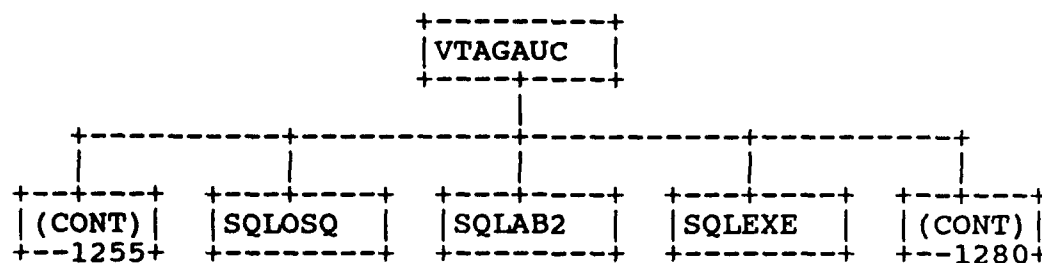
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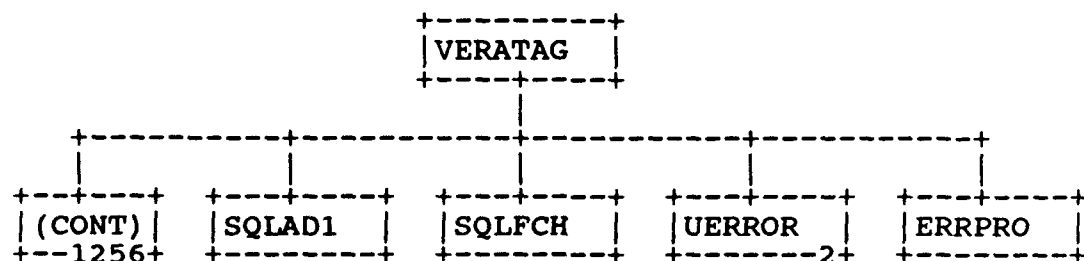
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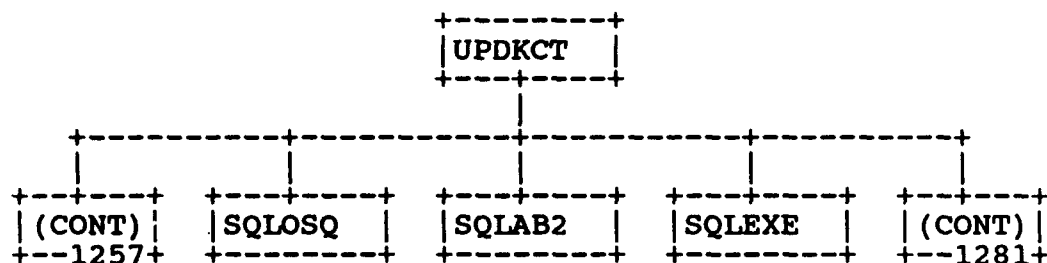
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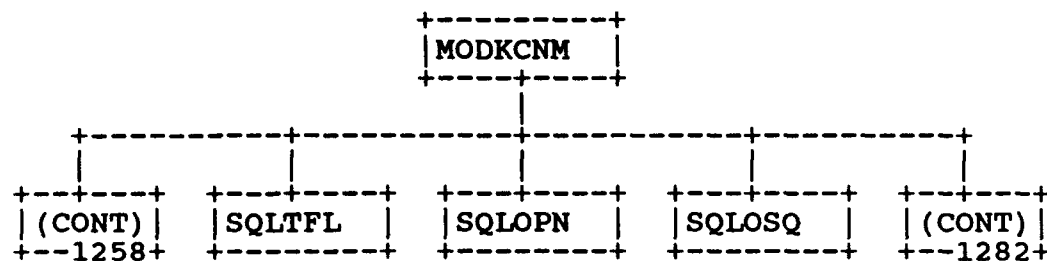
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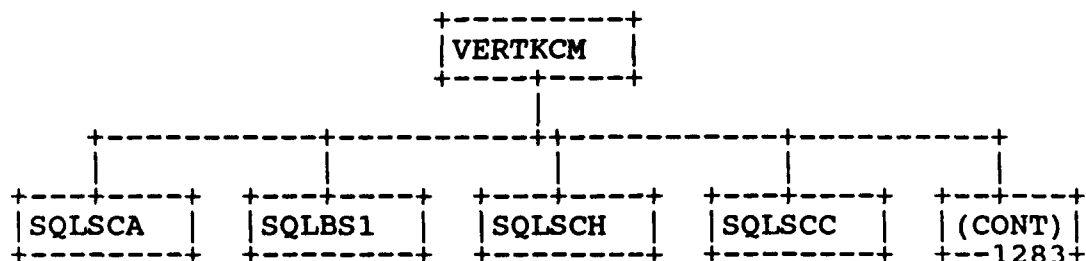
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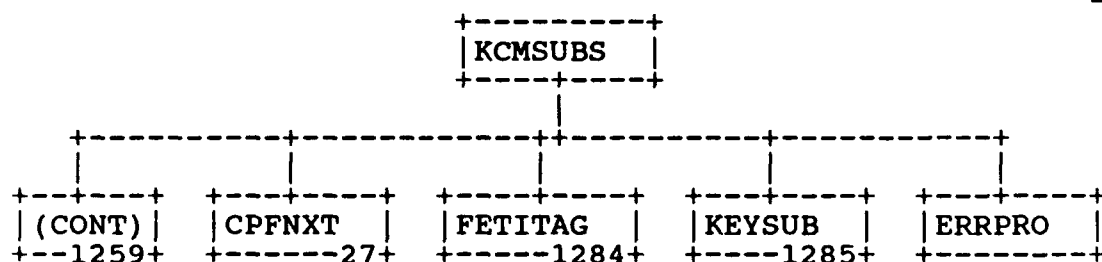
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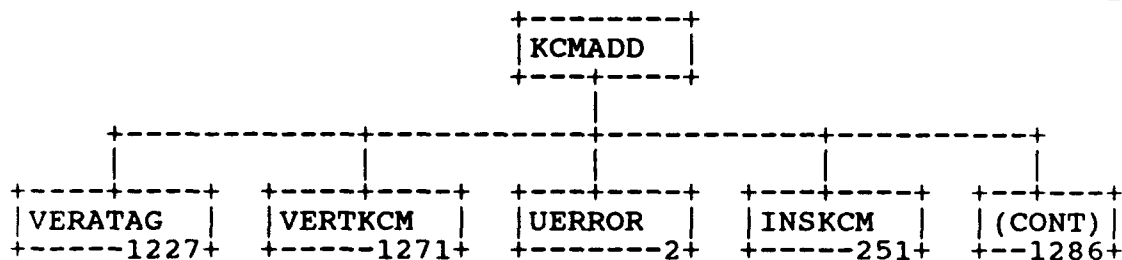
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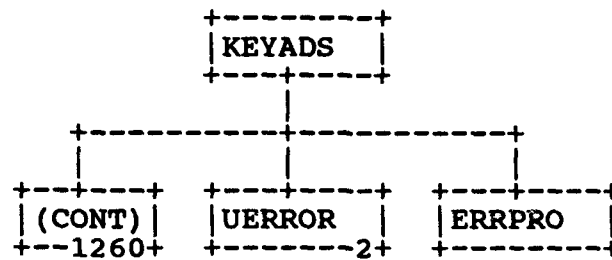
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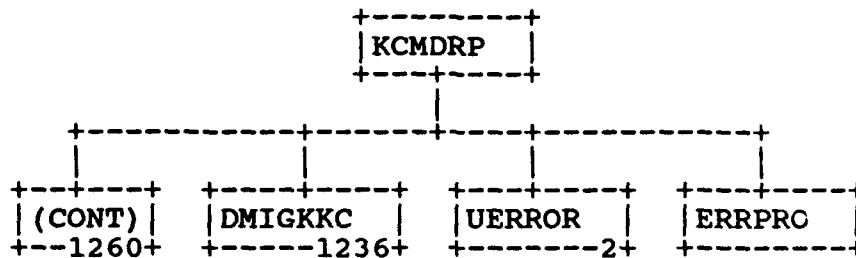
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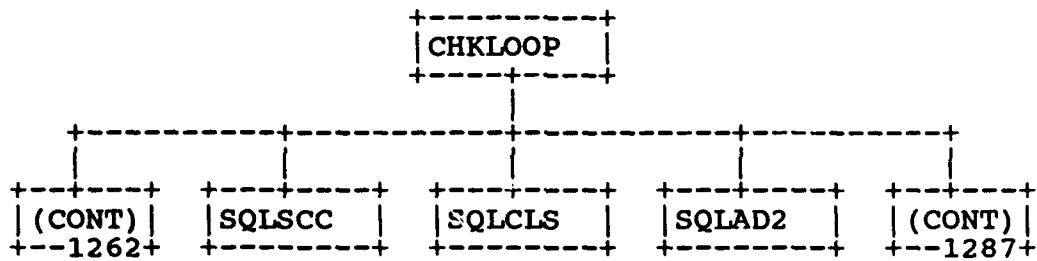
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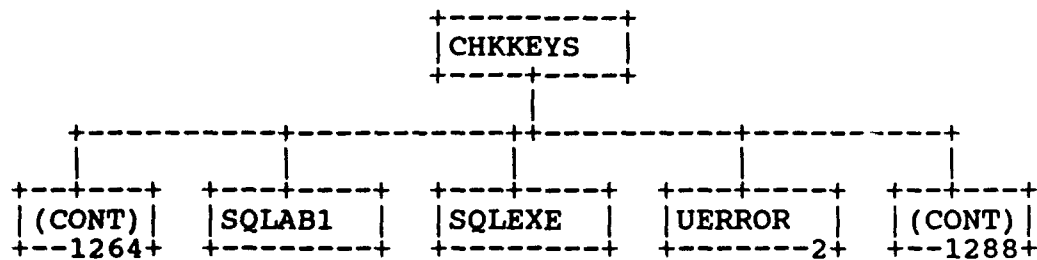
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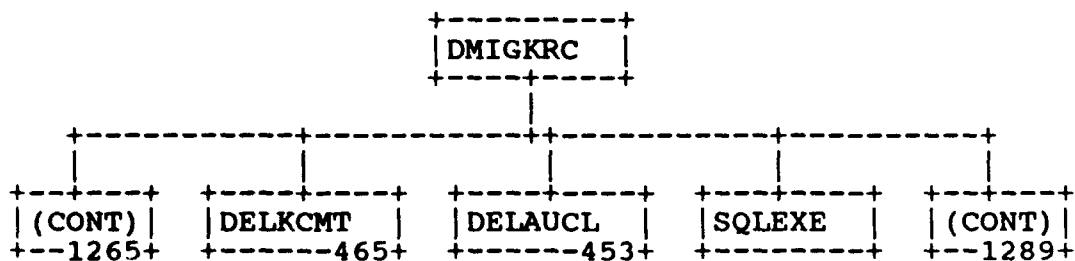
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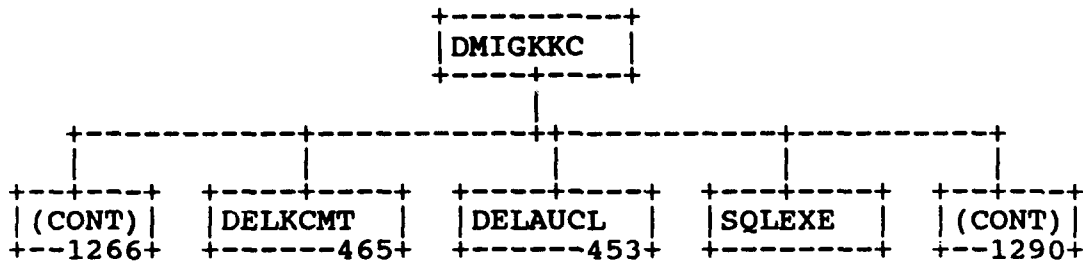
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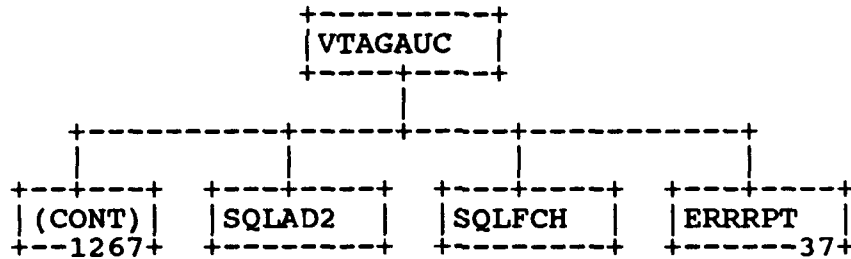
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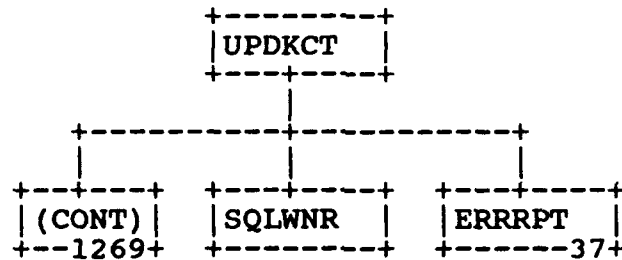
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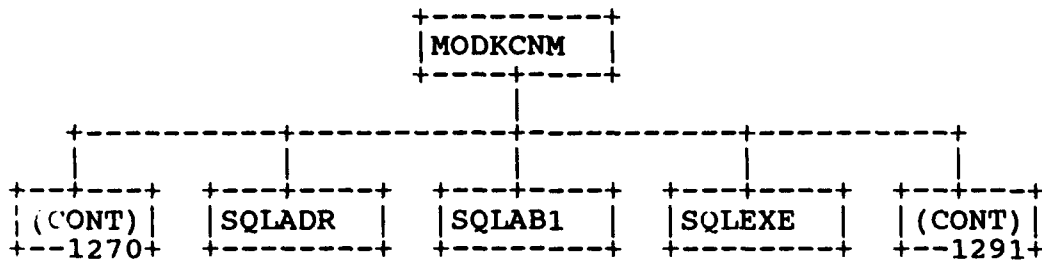
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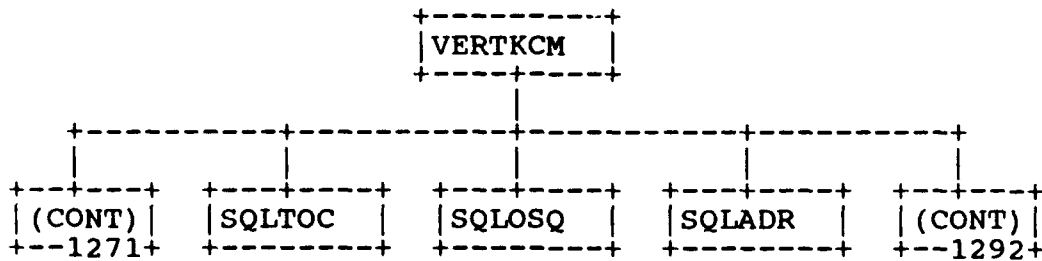
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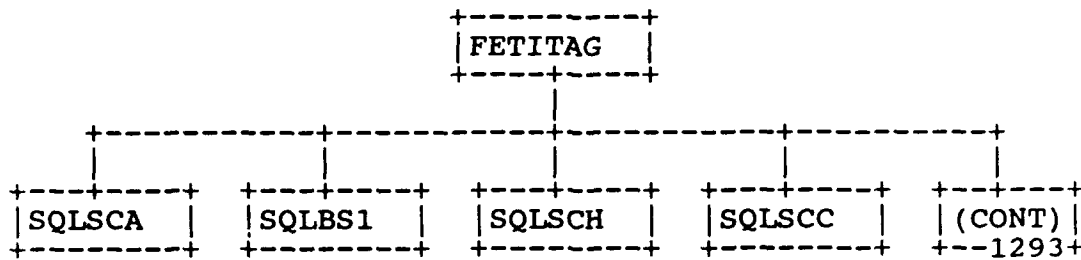
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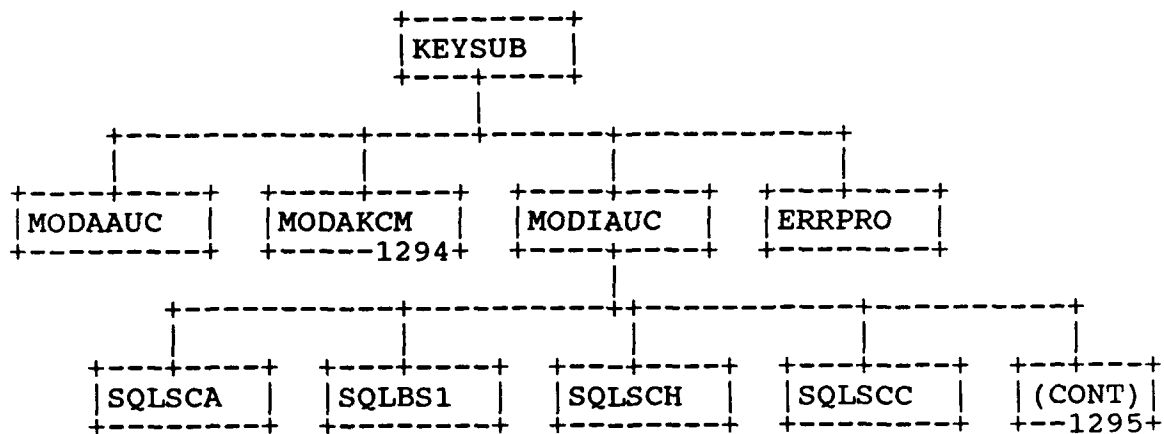
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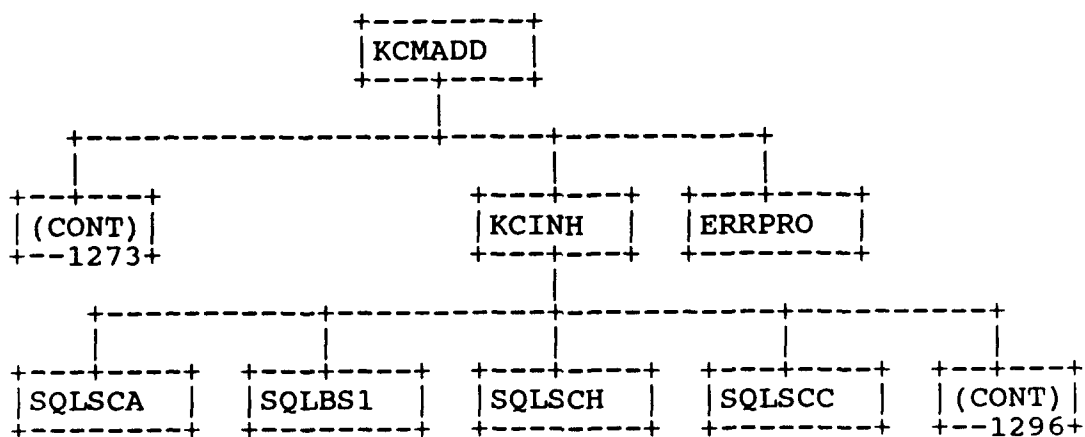
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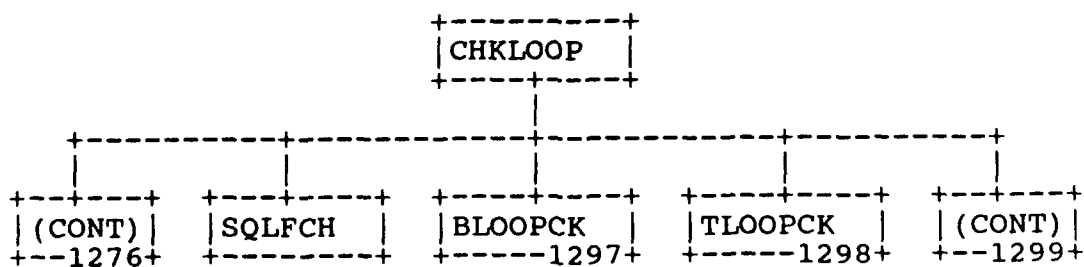
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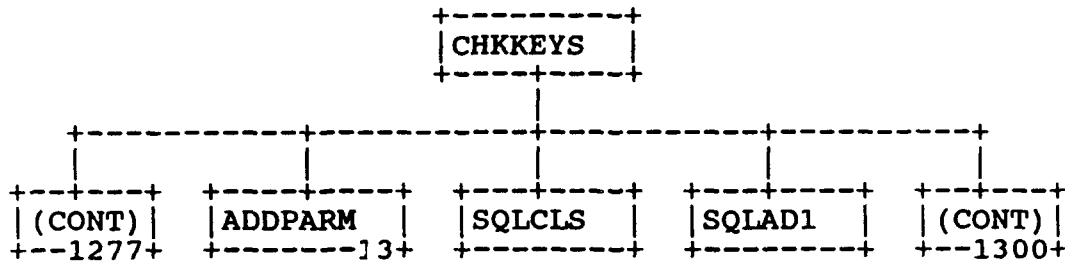
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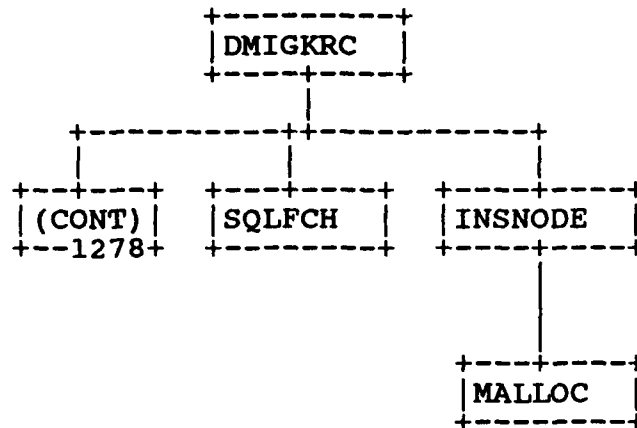
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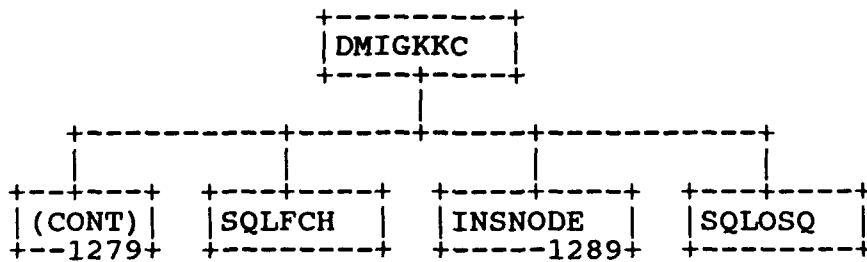
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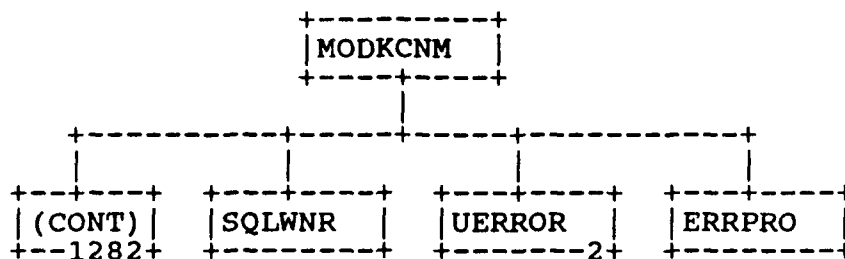
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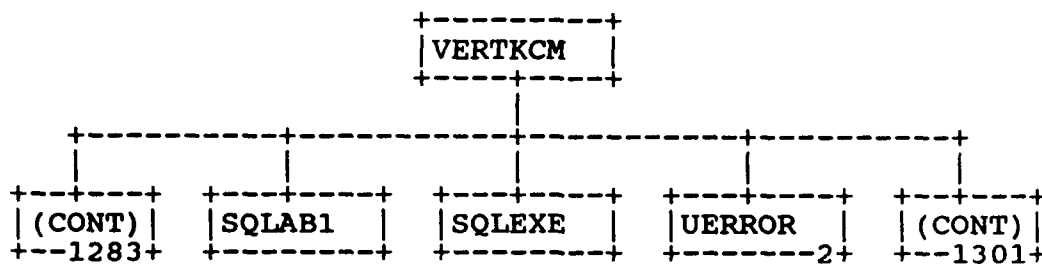
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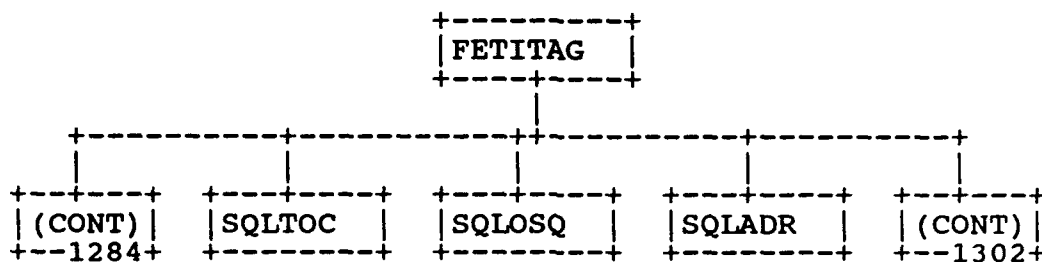
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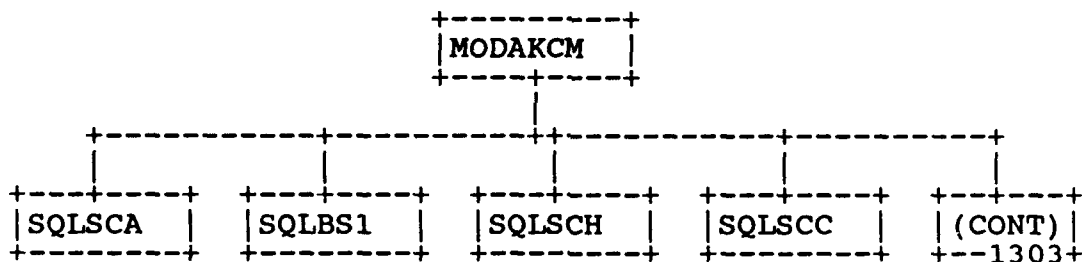
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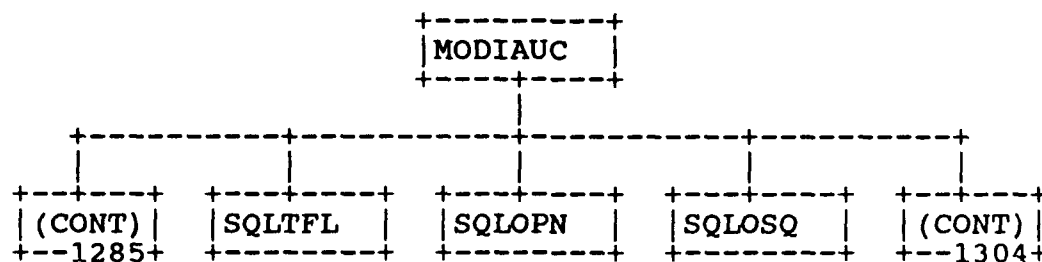
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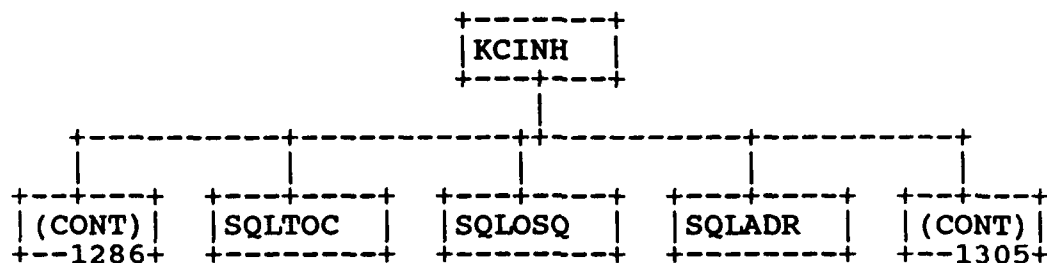
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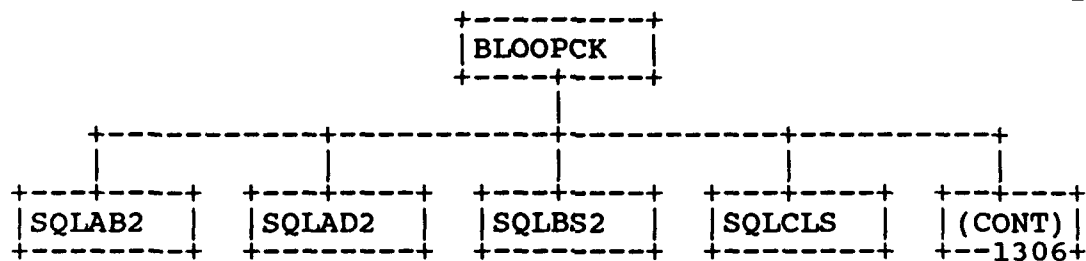
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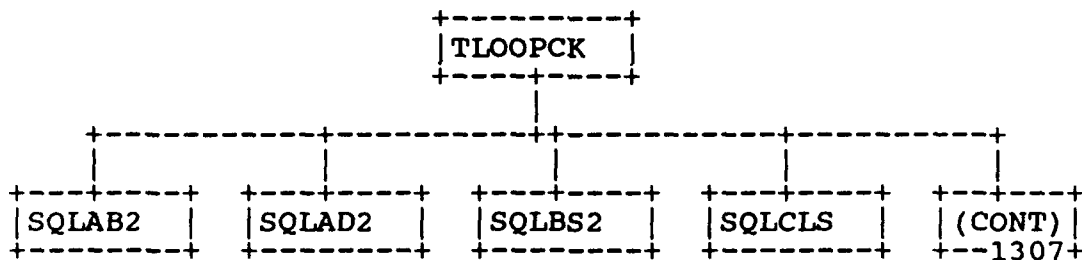
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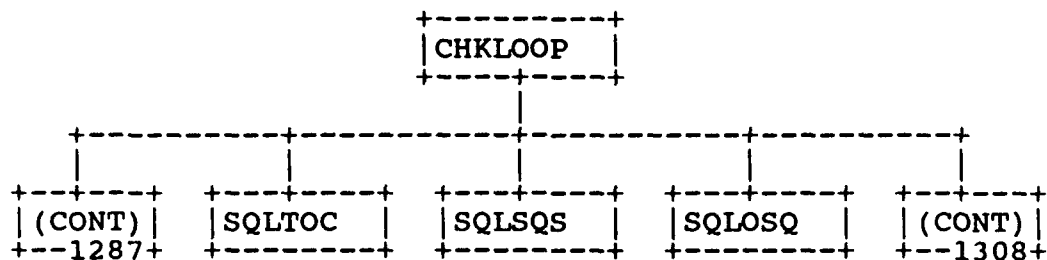
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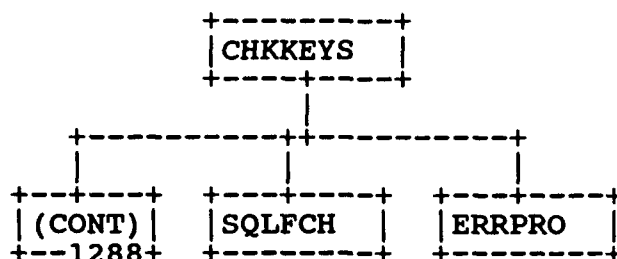
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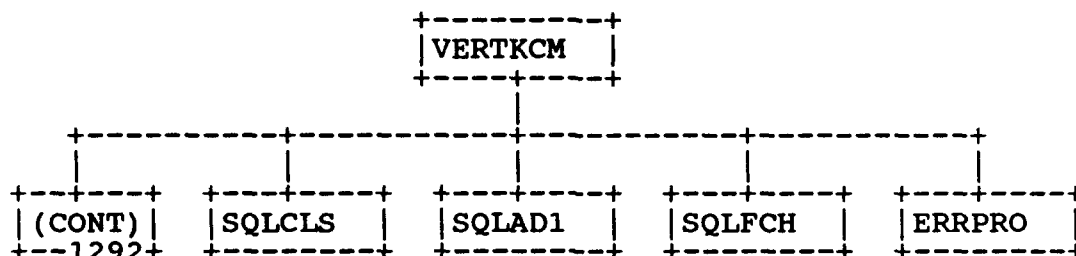
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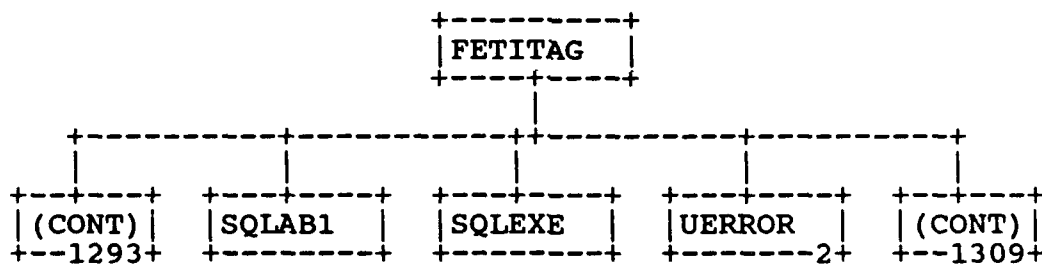
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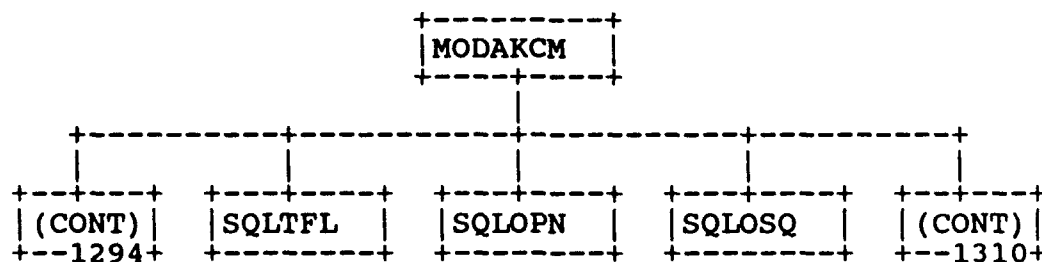
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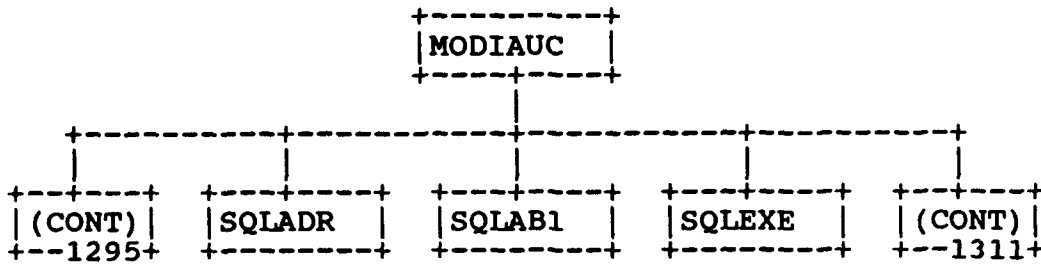
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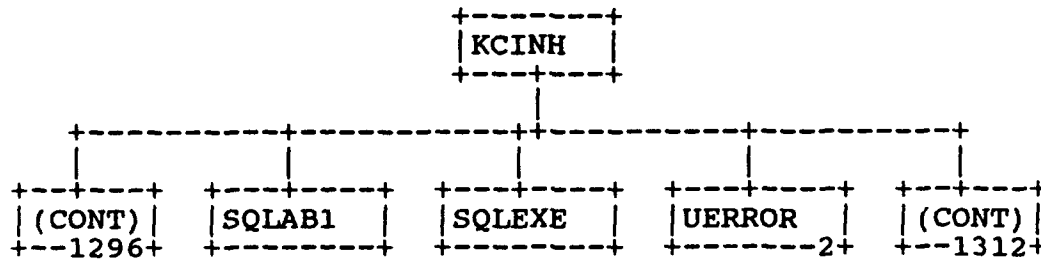
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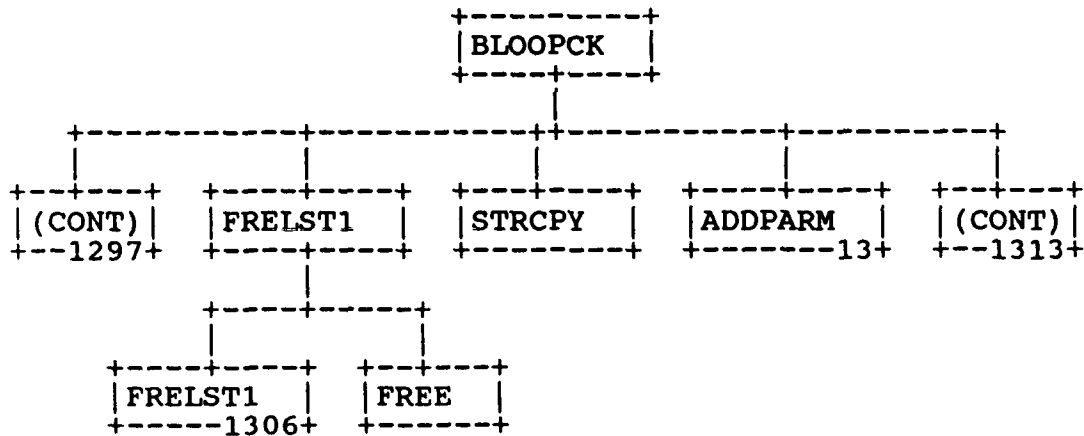
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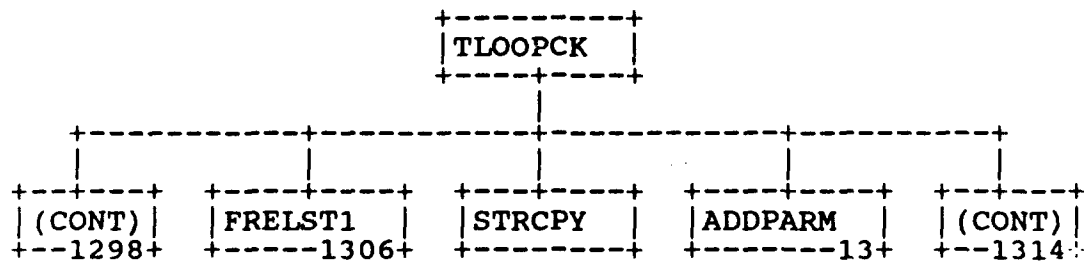
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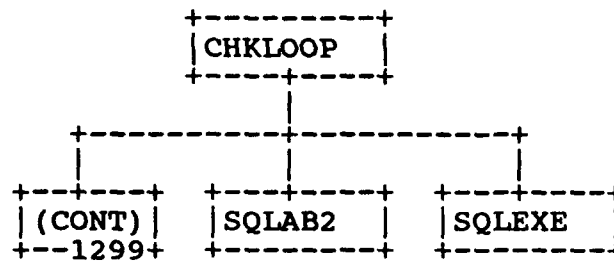
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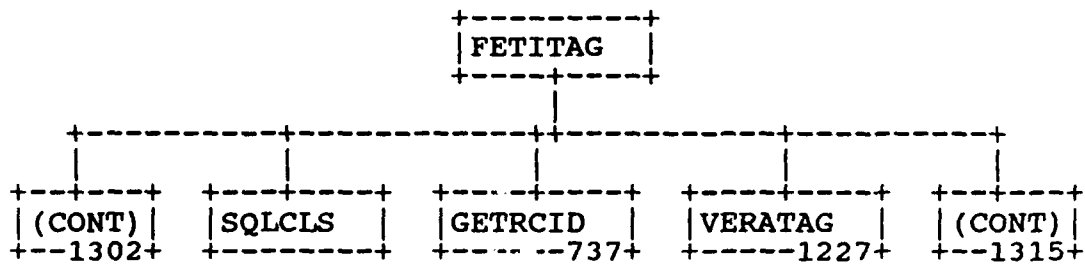
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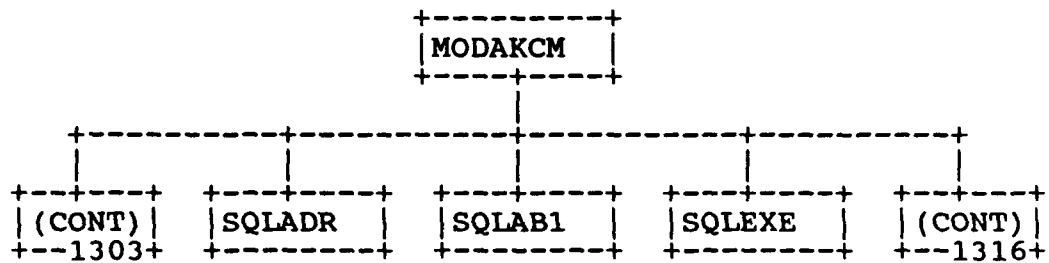
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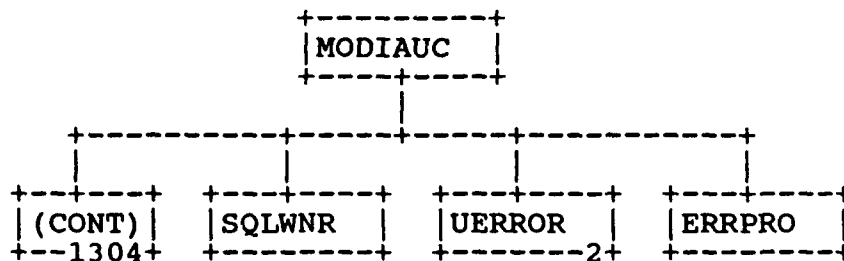
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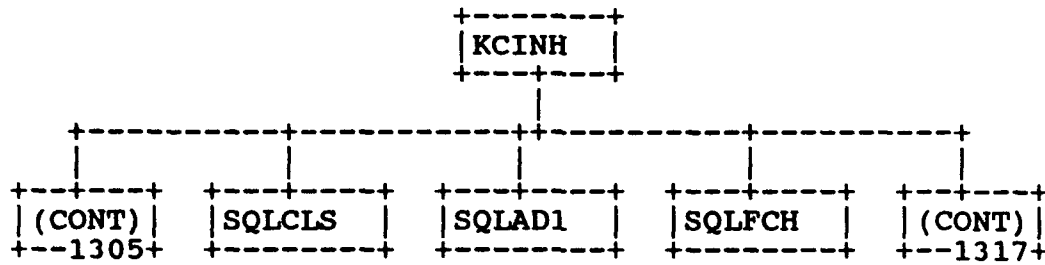
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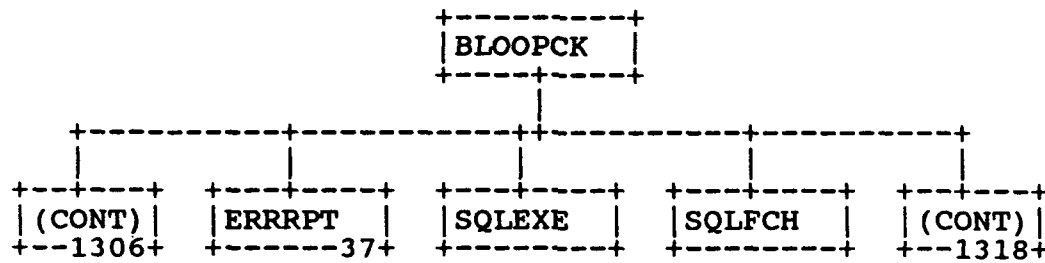
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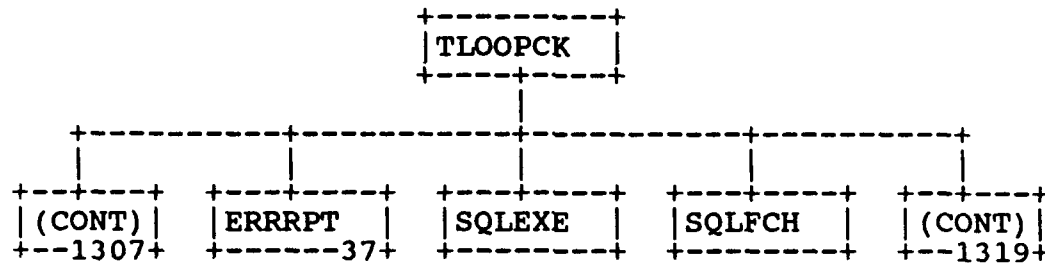
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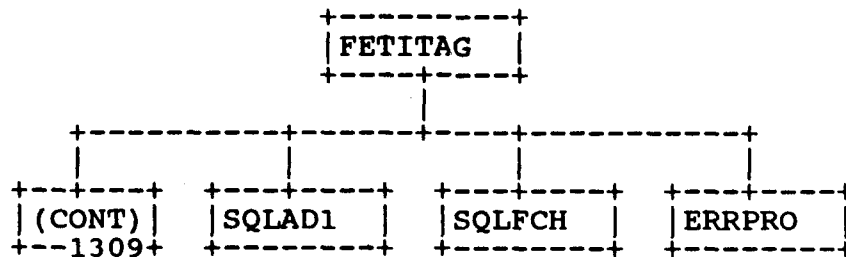
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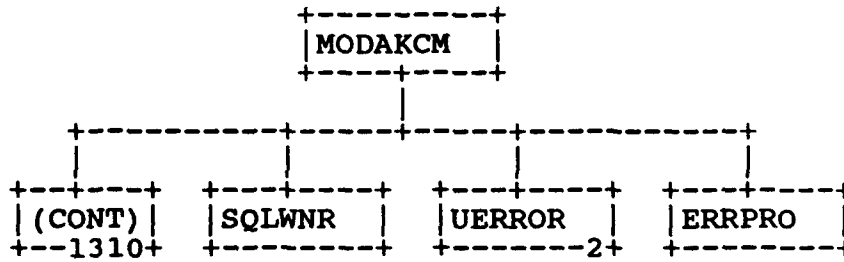
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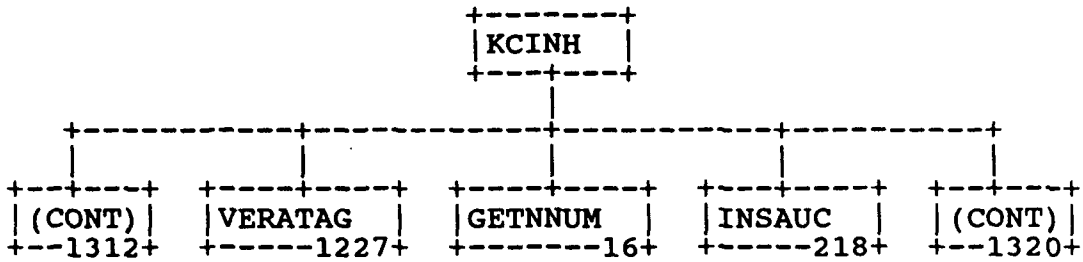
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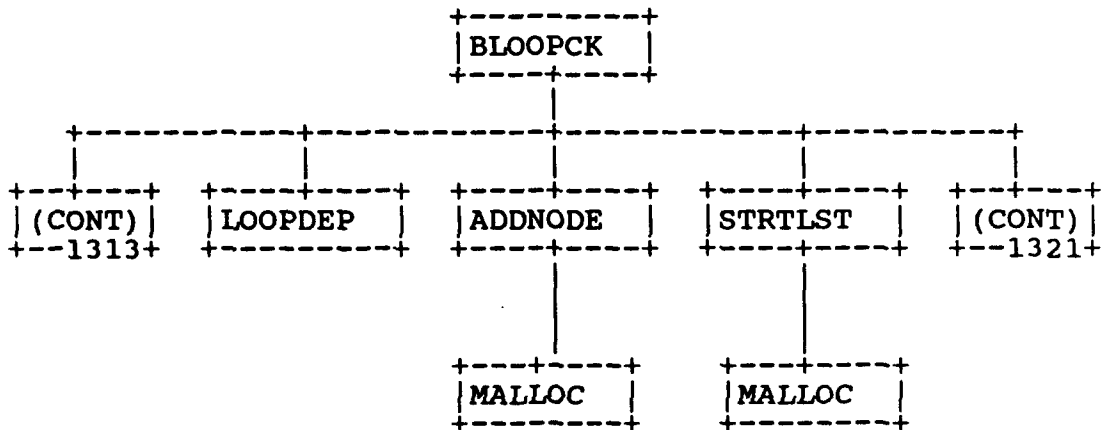
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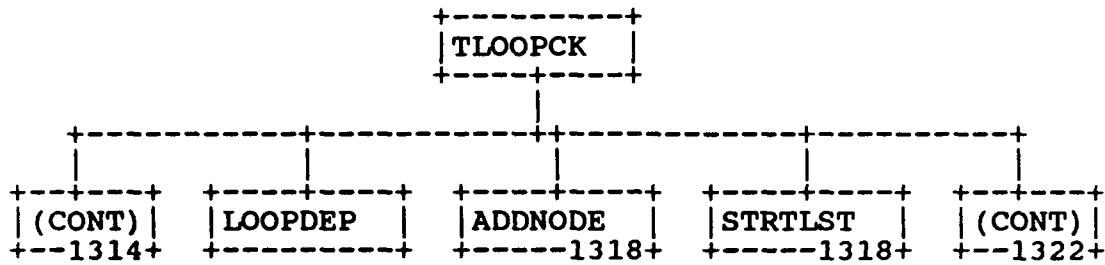
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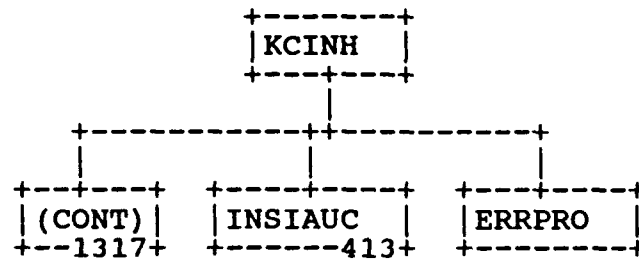
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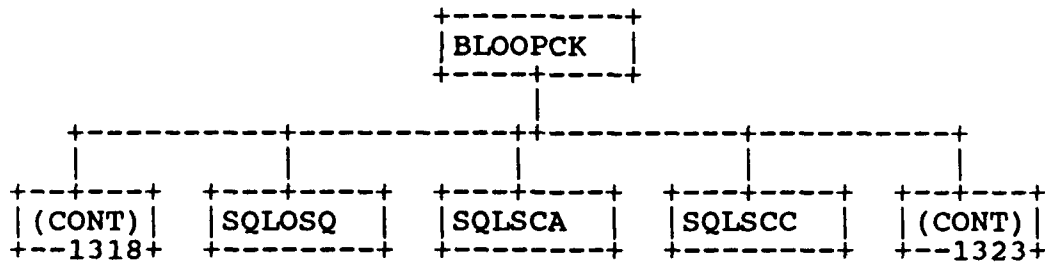
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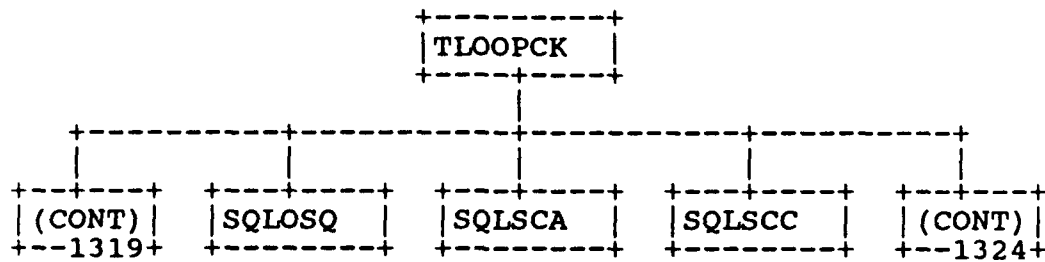
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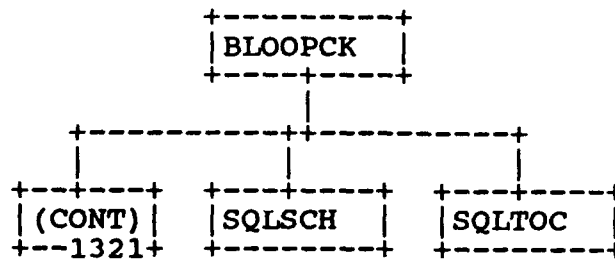
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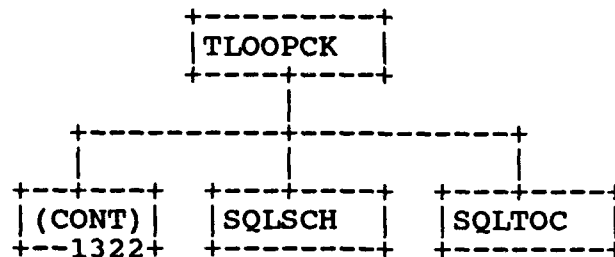
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1323



1324



ADDATT	1193	ALLMROJ	160
ADDDT.....	2	ALLREC.....	13
ADDEC	119	ALLREL	736
ADDECNM	253	ALLRNG	91
ADDFLDS.....	3	ALLRSET	115
ADDFRM		ALLSET.....	14
ADDKC	1194	ALLVALU	70
ADDKCLS	119	ALLVIEW	334
ADDKG	148	ALMROJC	109
ADDKM	1226	ALT1ERT	
ADDKW	201	ALTAISM.....	15
ADDKWA.....	4	ALTALI	1120
ADDKWE.....	5	ALTATT	1121
ADDKWR.....	6	ALTCARD.....	24
ADDMAP	235	ALTCAT	1122
ADDMIG	330	ALTCODL.....	25
ADDMIGC	346	ALTDB	
ADDNCORR.....	851	ALTDDBMS	
ADDNODE	1318	ALTDDBT.....	26
ADDNSTD	2	ALTDOM	1158
ADDOAC	1193	ALTDT.....	32
ADDPARM	13	ALTENT	1159
ADDP RMS		ALTENTK	1211
ADDRNUM		ALTFLDS	1177
ADDSTD	8	ALTHST	1178
ADDTXT	22	ALTIMS.....	33
ADDUNIN	205	ALTMAP	1160
ADD CORR	1123	ALTMOD	1179
ADD TO CNT	1162	ALTORCL.....	34
ADD TO LST	1142	ALTPART	1179
ADP ARM1	149	ALTPSB	1213
AKCROW	119	ALTREC	1214

ALGCHK303	ALTREL1198
ALGDTN304	ALTSMAP	
ALLATT733	ALTSMOD1197
ALLCSET141	ALTTAG1210
ALLDB83	ALTUNIN1232
ALLDBMS84	ALTVLRG1174
ALLDOM70	ALTVMOD43
ALLDT70	AOACHK1189
ALLECRT133	AOACOPR1156
ALLENT734	AOACREC1172
ALLKEY		AOACTAG1189
ALLMCAT88	AOADPM1203
ALLMENT108	AOAEVAL1156
ALLMREC		AOAGAI1204
ALLMREL132	AOAKC1187
AOAMGDP1204	CHKSTMP269
AOAPICR1221	CHKVAL50
APNAME		CKDUPEC	
ATTKW		CKRNLST	
BLDATT		CLSFIL	
BLDATT1187	CMBACAL208
BLDRCEC220	CMBALI	
BLECLST253	CMBEKW	
BLKCL1119	CMBENT52
BLKCLST730	CMBOA178
BLOOPCK1297	CMBRKW211
BLRCKC736	CMCOUNT910
BLRCKC1189	CMPCRDA892
BLVWLST331	CMPMOD53
BRANCHR1087	CMPTAGS467
CATFROM151	COBINDN	
CDMACR		COCLOSE	
CDMACRX77	CODFINN	
CDNMOD		COEXEC	
CDP4A335	COFETCH	
CDPIC8		COMMIT1105
CDRPESU		COMMITFN	
CDRPXRF		COMMITMN	
CDS01		CONVCPF	
CDSDATE		COOPEN	
CDTRNSX386	COPAALI156
CERELS665	COPAKW127
CESTRUC680	COPATT54
CHAIN SYMB		COPCKW226
CHGDOM1138	COPEKW101
CHGLOBL		COPENT55
CHKATT1233	COPOA127
CHKAUCV401	COPRKW258
CHKCARD300	COPTOPE163
CHKCAT1208	COPVALI	
CHKCDOM1155	COPYAC157
CHKCMPX227	COSQL3	
CHKDOMS362	CPARM1044
CHKHPRT269	CPDDRAL869
CHKKEYS1249	CPDDRSP858
CHKLOOP1247	CPDOFAL868

CHKMKM	1263	CPDOFSP	857
CHKMOD	1215	CPFCOR	3
CHKOWN	35	CPFNXT	27
CHKREL	1248	CPFONE	8
CHKRELC	1233	CPFVAL	
CHKRNG	43	CPY1HST	
CPY1SMD	166	DEFIMS	307
CPYDB	66	DEFORCL	308
CPYDBMS	67	DEFPSB	339
CPYDES	853	DEFREC	340
CPYDOM	56	DEFSET	341
CPYDSTP	68	DEFSMOD	368
CPYHST	86	DEL1AIM	
CPYMAP	87	DEL1ASM	640
CPYMCAT	88	DEL1ERT	
CPYMENT	108	DEL1PDF	640
CPYMOD	89	DEL1PRF	342
CPYMODU	113	DELAAL	342
CPYMREC	114	DELAC	682
CPYMREL	132	DELACAL	861
CPYMSET	115	DELACKW	862
CPYREC	143	DELACNM	863
CPYSET	144	DELAON	502
CPYVIEW	145	DELAISM	394
CRCLASA	854	DELAICM	
CRCLASS	855	DELAIRM	1230
CREATTR	137	DELAIRA	41
CRPARM	892	DELAIR	369
CRPARM2	910	DELAIR1	880
CRPARM3	928	DELAIR2	881
CRTALI	146	DELAUC	440
CRTATT	173	DELAUCK	454
CRTCAT	147	DELAUCL	453
CRTDOM	174	DELCA	882
CRTDSCT	175	DELCA	472
CRTEXT	176	DELCA1	516
CRTEXT		DELCA	468
CRTMACR	50	DELCA	470
CRTMAP	203	DELCA	502
CRTMOD	176	DELCA	564
CRTPART	204	DELCA	494
CRTRELA	238	DELCA	471
CRTUNIN	205	DELCA	694
CRTVIEW	239	DELCA	572
CRTVLRG	8	DELCA	586
CRTVMOD	27	DELCA	604
DBLOOK	241	DELCA	573
DEFALG	273	DELCA	369
DEFAREA	240	DELCA	460
DEFCODL	274	DELCA	543
DEFDB	240	DELCA	518
DEFDBMS	275	DELCA	574
DEFHST	275	DELCA	587
DELDFL3	599	DELCA	425
DELDIR	369	DELCA	425
DELDOM	521	DELCA	939

DELD SCT	498	DELRBR2	954
DELD SL1	605	DELRC	430
DELD SL2	636	DELRC KW	424
DELD SL3	548	DELRCST	955
DELDT	411	DELREUS	
DELDTD	521	DELROJ	425
DELDTNO	546	DELROJE	433
DELEC	883	DELRST2	601
DELECAL	712	DELRST3	549
DELECKW	901	DELRTY2	570
DELECNM	902	DELSDF1	956
DELECON	395	DELSMOD	77
DELECRF	395	DELSN1	519
DELFLDA	39	DELSTM1	603
DELFLDS	522	DELSTM2	656
DELHPN		DELSTM3	578
DELHPNA	526	DELTEXT	452
DELHST	395	DELTX	983
DELIAUC	445	DELUNIN	
DELIAUK	903	DELVIEW	433
DELIRCS	699	DEPATT	
DELKC	510	DEPEC	288
DELKCM	423	DEPENT	254
DELKCMT	465	DEPENTD	254
DELKW	920	DEPFROM	150
DELKWAC	921	DEPKCM	159
DELKWEC	904	DEPKCM1	159
DELKWRC	937	DEPREL	223
DELLR	431	DEPREL1	256
DELMDKC	423	DEPRELA	223
DELMDRC	424	DESCRB	965
DELMIGK	466	DLDTAG	487
DELMOD	551	DLDSL2	966
DELMTAG	448	DLMDAUC	440
DELMTKC	449	DLMIGRC	513
DELOAC	694	DLMTMAP	486
DELOACE	684	DLTPRFA	488
DELOWAC	938	DMIGKKC	1236
DELPARM	77	DMIGKRC	1235
DELPCB	628	DOMUSAG	520
DELPDF	448	DPKCLST	189
DELPDI	412	DRPAC	1175
DELPSB	553	DRPALG	447
DELPSWD	542	DRPALI	
DRPALTG	448	ECRTALL	489
DRPARMS	1230	ECRTCHK	637
DRPATT	449	ECSTRUC	222
DRPCAT	450	EDITCI	
DRPCRE	458	ENTKW	645
DRPCRE1	513	ERRPRO	
DRPDB	459	ERRRPT	37
DRPDBMS	460	ERRTRAP	1003
DRPDF	676	ESCPY	
DRPDFMP	664	EXCFLAG	52
DRPDIV	476	EXIT	
DRPDOM	477	FCLOSE	
DRPDSCT	478	FCOPATT	80

DRPDT		FCOPENT.....665
DRPECRT		FETITAG1284
DRPENT.....479		FILEINS973
DRPFLD.....499		FINDDOM.....646
DRPHST.....479		FLDSEMS.....666
DRPKC1192		FMTIAUC313
DRPKW1157		FND1MEM402
DRPKWC		FNDACM.....682
DRPMAP.....500		FNDASA328
DRPMGKM1224		FNDASM.....667
DRPMGRC513		FNDAUC.....683
DRPMIG.....524		FNDEC
DRPMOD.....525		FNDECCM118
DRPPART.....526		FNDECCR63
DRPPRF1		FNDECM.....684
DRPPSB.....553		FNDECM178
DRPRCE.....554		FNDOAC.....694
DRPREC.....555		FNDPDF.....685
DRPREL.....588		FNDRCEC
DRPRNG1223		FNDRCIE
DRPRNGA497		FNDRCM689
DRPRULE489		FOPEN
DRPSET.....556		FREE
DRPSMAP.....589		FREELST1117
DRPSMOD.....617		FREE_SYMTAB
DRSPRF.....618		FREGCLST492
DRPSTMP643		FRELST11306
DRPUNIN.....590		FRELST2
DRPVAL1190		FRETAGLST504
DRPVALA497		FRTOREL117
DRPVIEW.....619		GDATA
DRPVMOD		GEN1DSC867
DTUSAGE.....644		GENAKW207
ECLOOK.....619		GENALG
GENALI208		GENSET14
GENALT1.....695		GENTODF
GENALTE182		GENTOST193
GENAREL		GENVIEW717
GENATT207		GETACAL
GENATTR127		GETCARD.....705
GENCAT191		GETCHAR
GENCMPX227		GETCRID708
GENCNM1399		GETCRNM.....708
GENCNM2		GETDBST366
GENCNM3262		GETDFSL14
GENCNME212		GETDOM361
GENCREC		GETDKT585
GENCRPT140		GETDTN327
GENCRUN194		GETECAL.....712
GENDALG263		GETECNM229
GENDB105		GETECS1233
GENDCOM224		GETGLOB171
GENDEP224		GETHOST
GENDESC22		GETMEMB14
GENDOM70		GETNCHR981

GENDT	70	GETNNUM	16
GENECRT	134	GETNXNO	28
GENEHP	162	GETRCID	737
GENEKW	759	GETRCNM	752
GENENT	759	GETRDH	143
GENENT1	149	GET_FIRST_SYMB	
GENENT2	374	GET_FRST_CHAIN	
GENEUN	194	GET_NEXT_SYMB	
GENFIL		GTAUCPR	709
GENFLD	22	GTCNTPR	263
GENFROM	184	GTDIPR	709
GENGENC	225	GTDTTYP	386
GENICOM	259	GTVIEWS	717
GENIND	259	HALT	1104
GENKEY	131	HOOK_FORM	1040
GENMAP	193	HPNLOOK	552
GENMENT	162	ICOPATT	79
GENMREL		ICOPENT	102
GENMROJ		INDFROM	183
GENOA	759	INITAL	
GENPSB	696	INITCMD	
GENREC	13	INITFP	
GENREL	704	INITRDL	
GENREL1	377	INITSES	1027
GENRKW	325	INPFIL	
GENRNME	180	INS1PSB	365
INS1ROJ	713	INSPWRD	721
INSAC	247	INSQCRF	333
INSACNM	79	INSQCTG	333
INSAISM	381	INSRC	242
INSAPRM	393	INSRCRS	427
INSAREA	41	INSRNG	36
INSAUC	218	INSRSET	392
INSAUCS		INSRTPA	407
INSCATM	312	INSRTYP	721
INSCATR	277	INSRULE	721
INSCOPA	419	INSSCH	274
INSCRC	278	INSSMOD	51
INSDAA	713	INSSTM	391
INSDB	713	INSTAGLST	558
INSDBH	718	INSTFLD	40
INSDBMS	718	INSTGPA	389
INSDESC	872	INSUNIN	725
INSDFPA	407	INSVAL	27
INSDI		INSVIEW	272
INSDIPA	407	INSVMOD	62
INSDOM	174	ISLOWER	
INSDSCT	202	KCINH	1286
INSDSL	409	KCMADD	1273
INSDT	16	KCMDRP	1260
INSEC	81	KCMSUBS	1259
INSECNM	98	KEYADS	1245
INSECRF	332	KEYLOOK	219
INSECRT	403	KEYSUB	1285
INSGECLST	592	KYSTRUC	189
INSHST	718	LDECLST	255
INSIAUC	413	LISTNAME	

INSKC		LOADESC992
INSKCM251	LOOPDEP	
INSKW957	LOWUPP3
INSKWAC4	LVLCHK976
INSKWEC5	LVLCHK1977
INSKWRC6	MALLOC	
INSLNKR329	MALTOAT726
INSMOD967	MAPADF327
INSNODE1289	MAPAREC403
INSOAC217	MAPAROJ383
INSORDR968	MAPASET382
INSPARM76	MAPRC402
INSPART		MEMCPY	
INSPCB338	MGENENT726
INSPDF		MGENOA726
INSPDI363	MGENREL325
MIGREL210	OUTDESC1005
MKRNL1371	OUTFIL	
MKRNLST385	P1FROM334
MODAAUC		PDATA	
MODACEC1222	PMSGLS	
MODACKW988	PNOFROM302
MODAISM		PRESMIG1217
MODAKCM1294	PRINTF	
MODATT137	PROCDT1158
MODAUCE727	PROCMD1028
MODDBAL727	PROCPRM	
MODECKW989	PUTC	
MODENT112	PUTCHAR	
MODIAUC1285	PUT SYMB	
MODKC138	RACKW2738
MODKCNM1258	RCCHK739
MODLOC31	RCCHK1740
MODOATT111	RCLASA1013
MODPCB33	RCLASS1014
MODPWRD34	RDDDESC1015
MODRCKC164	RECKW2732
MODRCKW990	RECSEMS30
MODREL165	RELKW	
MODREL1198	REVIEW302
MODRELA165	RENMOBJ741
MODSCH25	RESETFN	
MODYFLD550	RESETMN	
MRGMOD728	RETACKW741
MRGMOD1730	RETATTR1156
MRGMOD2731	RETDT42
MRGNODE1000	RETECKW645
NCOMMIT1105	RETRAC1746
NDDL/MAIN991	RETRAC2751
NEWTAGM1202	RETRACP738
NEW SCOPE		RETRCKW746
NEXTKC35	RETREC1752
NEXTKCM182	RETREC2756
NFLCLOS185	RETRCF708
NFLOPEN93	RETRFLD17
NRGET1001	RETRNGA1207
NROLBAK1071	RETSTD1240

NRSTORE.....1002	RETVALA1174
OISCR	RETVMOD
OLDTAGM1173	RMVPAG
OPNFIL	RNGVERF
OPNFRM	ROLBACK1071
ORALON.....729	RPLFRM
RRCKW2.....752	SELUNIN1246
SAVTAGS	SELURT659
SCANF	SETCOMM.....1016
SEL1DSC872	SETGLOB.....1025
SELACNM181	SETOUT1087
SELAIMP642	SET LEVEL
SELAIMT.....762	SIGNAL
SELAISM.....757	SMVIEW361
SELAPRM227	SPRINTF
SELCATC.....757	SQLAB1
SELCATM517	SQLAB2
SELCRAD.....763	SQLAD1
SELCRDN	SQLAD2
SELDB106	SQLADR
SELDBAA13	SQLBS1
SELDBMS304	SQLBS2
SELDBNM194	SQLCLS
SELDBRT160	SOLEXE
SELDESC869	SQLFCH
SELDFPM227	SQLLO1
SELDI263	SQLOPN
SELDSTP68	SQLOSQ
SELECNM150	SQLSCA
SELECXR	SQLSCC
SELFLDS	SQLSCH
SELHOST106	SQLSQS
SELHP.....763	SQLTFL
SELHSTS.....766	SQLTOC
SELIAUC244	SQLWNR
SELIKEY221	STARTBL196
SELKCM131	STRCAT
SELKCMA	STRCPY
SELMODS167	STRINS981
SELMREC140	STRLEN
SELMTAG193	STRNCMP
SELPARM	STRNCPY
SELPEC108	STRQCRF333
SELRCNM117	STRTLST1318
SELRELC	TERATTR157
SELRELL	TERDIR102
SELRMAP192	TERKEY219
SELRSET634	TERMFP
SELRTPM227	TERMSSES1017
SELSET169	TERREL103
SELSETC.....1024	TERSIM82
SELSTM635	TERSTR129
SELTGEC	TLOOPCK1298
TOPNODE735	UPDRCB806
TOUPPER	UPDRCNM.....1070

TRADIR	81	UPDRDFU	1098
TRAFIL	101	UPDREC	776
TRMDDL	1029	UPDRRCB	1099
TRMDML		UPDRRS	1100
TXTTYP	965	UPDRSS	805
UERROR	2	UPDRSTM	1114
UINDDL/MAIN	1036	UPDRT	776
UPD1PSB	1231	UPDRULE	777
UPDAC	1171	UPDSET	790
UPDACAL	1154	UPDSMOD	
UPDACNM	1037	UPDSTM	807
UPDAPP	1038	UPDTCR	1115
UPDAUC	809	UPDTDOM	1116
UPDAUCE	1205	UPDTDI	
UPDAUCS	766	UPDTKW	1132
UPDCRNM	1085	UPDTRC	1133
UPDDAA	1050	UPDUDT	772
UPDDB	779	UPDVIEW	1134
UPDDBH	780	UWARN	24
UPDDBN	1051	VALDROP	791
UPDDDI	770	VALDTN	380
UPDDF	1052	VALROJ	811
UPDDFU	808	VALVERF	
UPDDI	768	VALVWRC	335
UPDDT	767	VERACDT	477
UPDDTI	768	VERACNM	64
UPDECAL	1153	VERAIM	637
UPDECNM	1053	VERAIMD	474
UPDEDF	771	VERAIMR	
UPDFDF	787	VERAISM	269
UPDFDFU	775	VERALG	455
UPDFLD	775	VERALGI	305
UPDFPDF	1067	VERALI	792
UPDHOST	769	VERALMP	303
UPDHST	778	VERAODM	177
UPDIND	32	VERAPDF	616
UPDKCT	1244	VERAPRM	393
UPDLRNM	1086	VERAREA	31
UPDMNAM	1068	VERARL	31
UPDMOD	1069	VERATAG	1227
UPDMP	773	VERATT	178
UPDNXNO	45	VERATTP	751
UPDPDF	1082	VERAUC	
UPDPSB	781	VERCMSV	
UPDRAUC	1083	VERCMU	279
VERCR		VERHPST	328
VERCRC	1208	VERHST	275
VERCRDA		VERHZP	235
VERCRNM	151	VERIREL	1221
VERCRTC	792	VERITAG	131
VERDB	115	VERKC	359
VERDBA	812	VERKCM	
VERDBAA	813	VERKCMG	
VERDBAL	83	VERKCT	177
VERDBAS	143	VERKCT1	182
VERDBH	365	VERKW	924

VERDBMS		VERKWE.....830	
VERDBRL474	VERKWR211
VERDBRT237	VERLR150
VERDBST813	VERLUW842
VERDF813	VERMAPD327
VERDFDT520	VERMOD63
VERDFID299	VERMPDF609
VERDFLD		VERMPDT842
VERDFPA		VERMUNI	
VERDFUS573	VERNMA1137
VERDI885	VERNME	
VERDIDN364	VEROAC157
VERDIDT520	VEROBJ871
VERDIID841	VEROBJ1865
VERDIPA		VERPARM	
VERDOM173	VERPART237
VERDPSB307	VERPASS105
VERDSCT175	VERPCB105
VERDSL3		VERPSB339
VERDSTP		VERRCB458
VERDT8	VERRCBS382
VERDTD32	VERRCC210
VERDTFL327	VERRCMP	
VERDTN830	VERRCNM150
VERDTYP		VERRCST842
VERDUNI496	VERRCT383
VERECN204	VERREC114
VERECR830	VERRNG1223
VERECRT356	VERROJ615
VERENT63	VERROJR637
VERENTP756	VERRPS496
VERERMD474	VERRSET142
VERFJOB51	VERRSUS574
VERHORZ543	VERRT382
VERHPDF299	VERTID848
VERHPN237	VERTNO162
VERRULE848		
VERSCH848		
VERSDT			
VERSMOD139		
VERSMS382		
VERSTID849		
VERTAG327		
VERTAP528		
VERTAUC557		
VERTKCM1271		
VERTMAP528		
VERTPDI528		
VERTYP			
VERUDT			
VERUDTN885		
VERUNIN849		
VERVAL279		
VERVIEW			
VERVWQU528		

VMODPRM76
VOMAPS401
VROBJ858
VROBJ1866
VTAGAUC1242
WRDSFL1005
WRTACKW121
WRTALG	
WRTALI95
WRTANAM.850
WRTDESC122
WRTDITM717
WRTDSTP85
WRTECKW99
WRTENAM128
WRTENT	
WRTLIN13
WRTOAT111
WRTSLCT720
WRTWHCL723
YYERROR1180
YYPARSE1123

SECTION 4

QUALITY ASSURANCE PROVISIONS

4.1 Introduction and Definitions

"Testing" is a systematic process that may be preplanned and explicitly stated. Test techniques and procedures may be defined in advance, and a sequence of test steps may be specified. "Debugging" is the process of isolation and correction of the cause of an error.

"Antibugging" is defined as the philosophy of writing programs in such a way as to make bugs less likely to occur and when they do occur, to make them more noticeable to the programmer and the user. In other words, as much error checking as is practical and possible in each routine should be performed.

4.2 Computer Programming Test and Evaluation

The quality assurance provisions for test consists of the normal testing techniques that are accomplished during the construction process. They consist of design and code walk-throughs, unit testing, and integration testing. These tests are performed by the design team. Structured design, design walk-through and the incorporation of "antibugging" facilitate this testing by exposing and addressing problem areas before they become coded "bugs."

3.11 Program Listings Comments

This information is contained in the Module Descriptions in section 3.10.